

FIG. 1 (a)

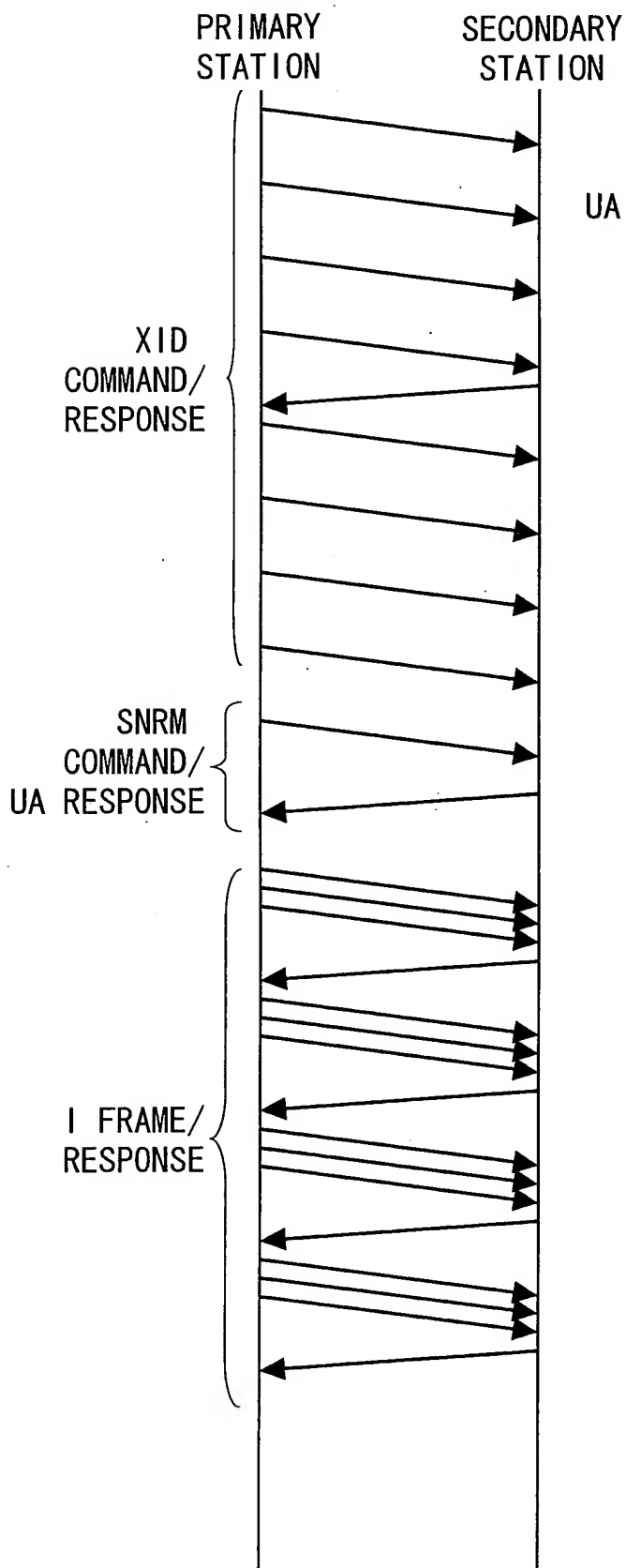


FIG. 1 (b)

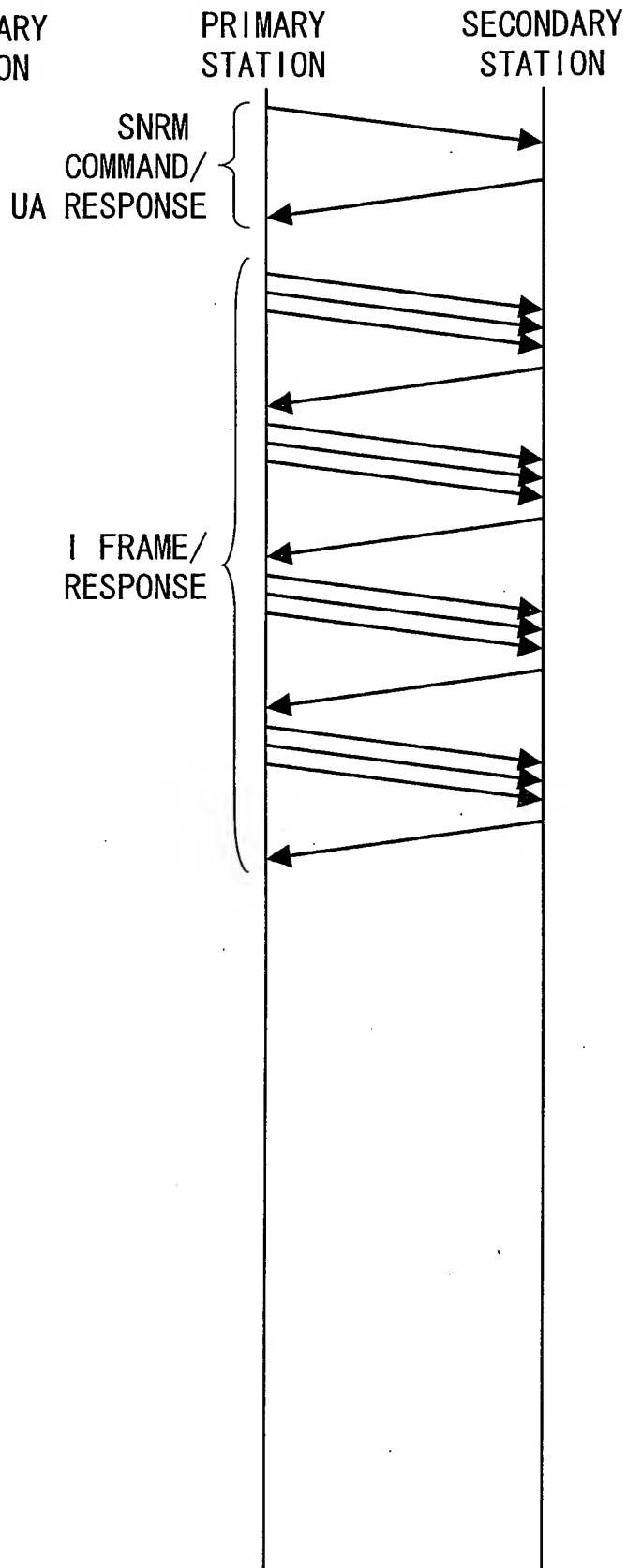


FIG. 2

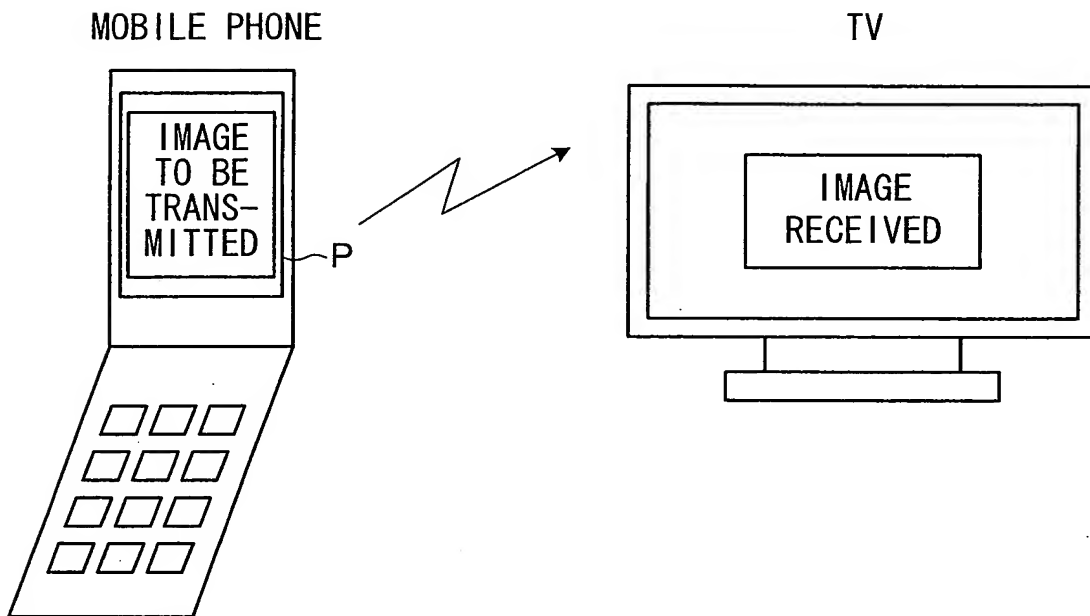


FIG. 3

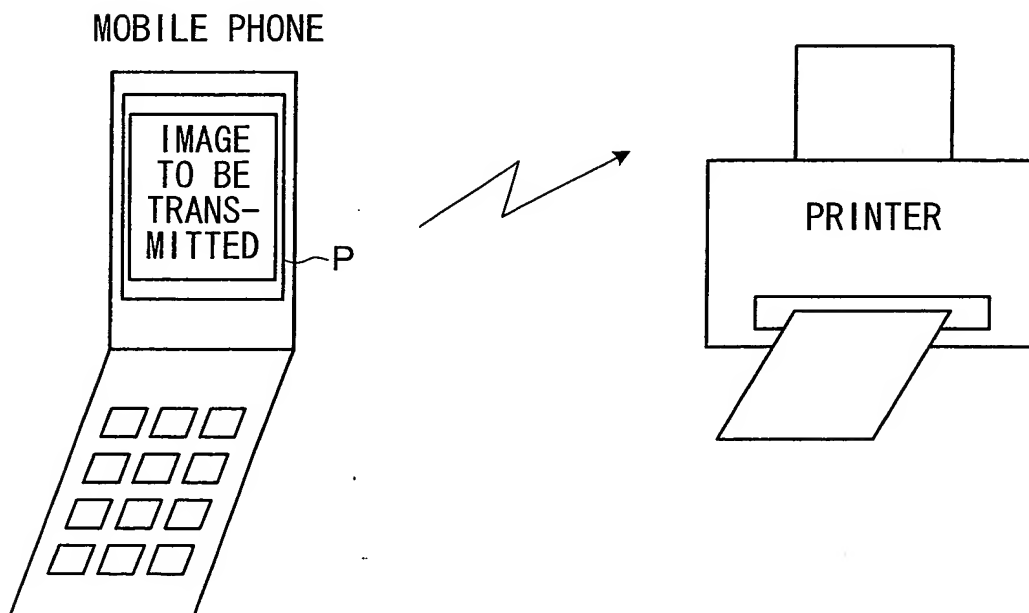


FIG. 4

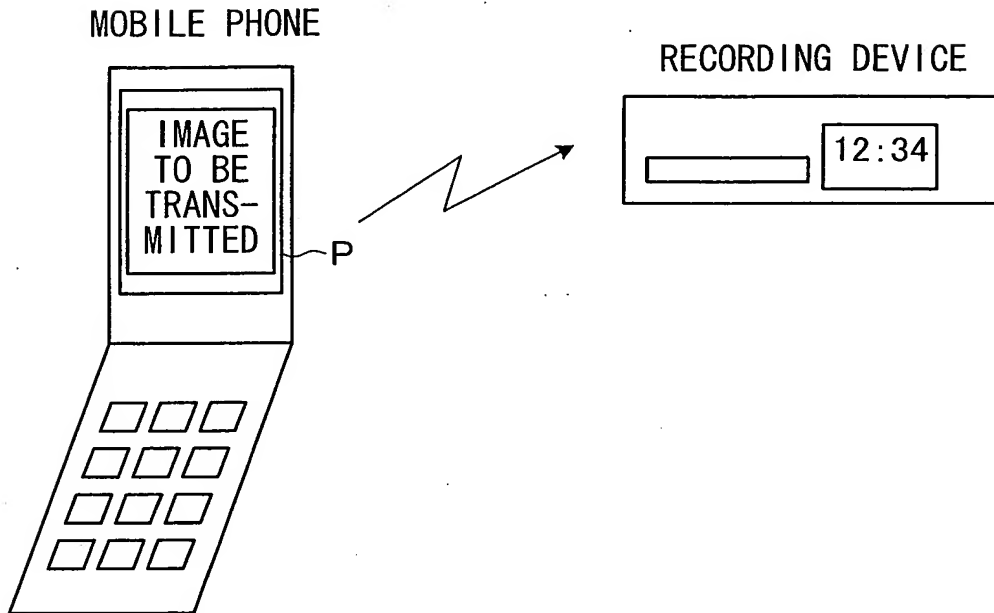


FIG. 5

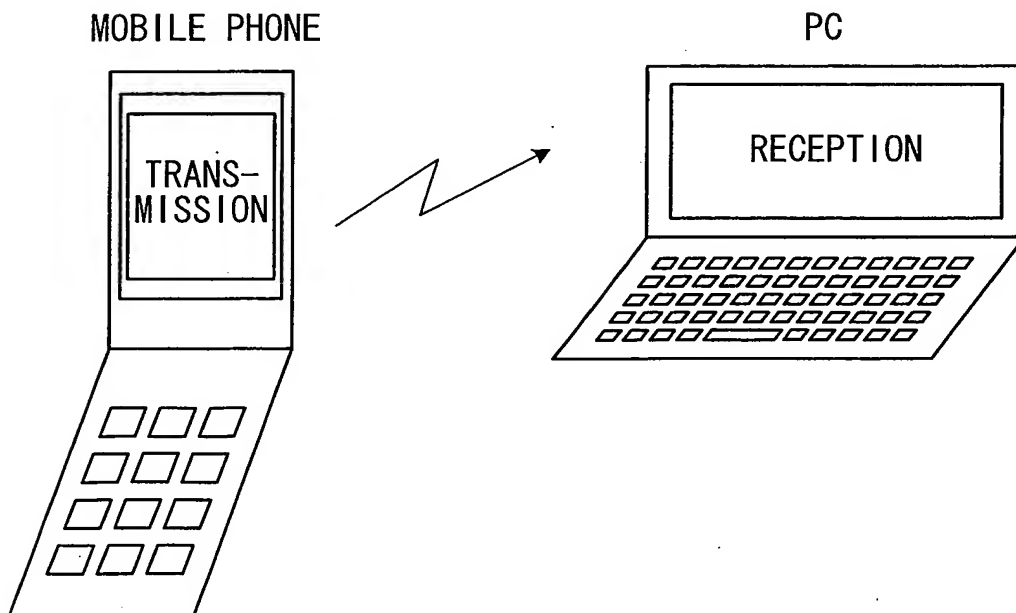


FIG. 6

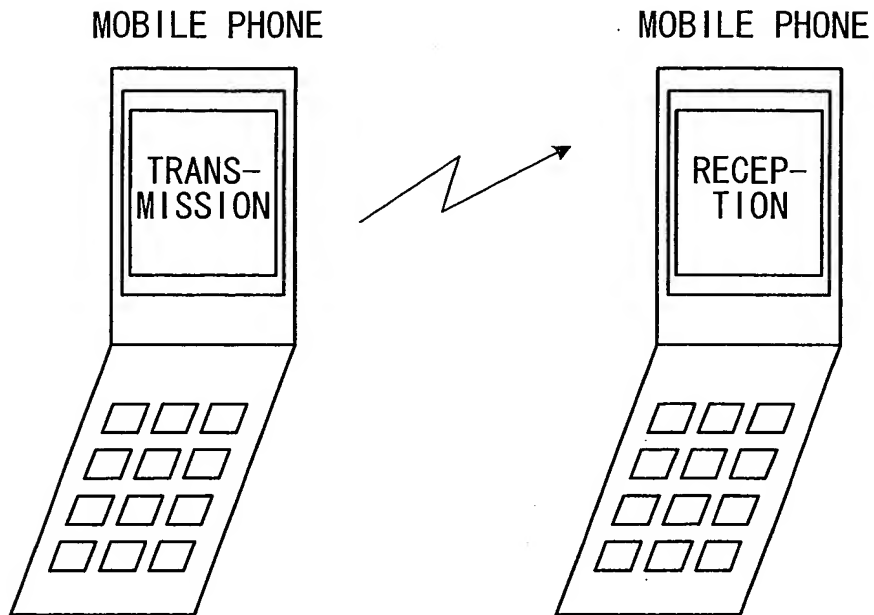


FIG. 7

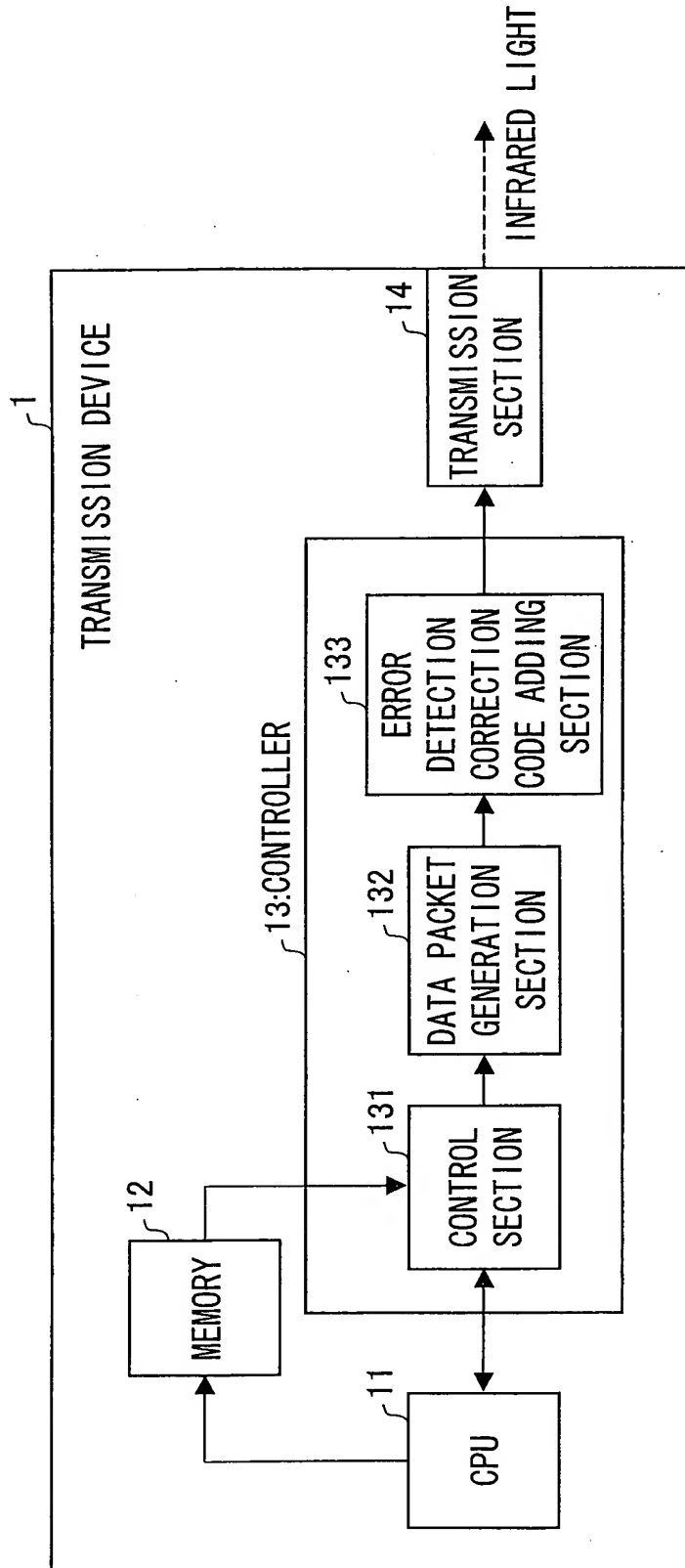


FIG. 8

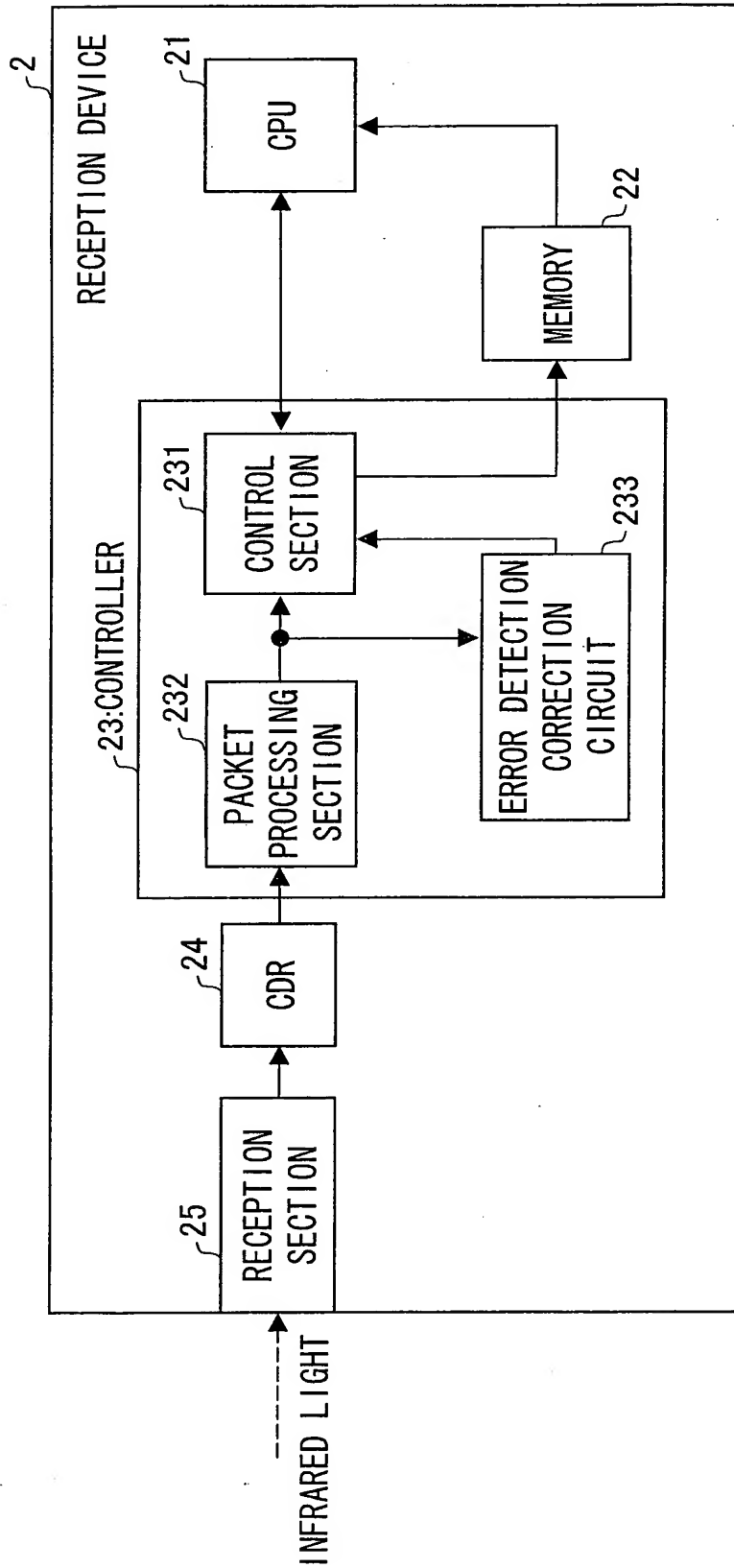


FIG. 9 (a)

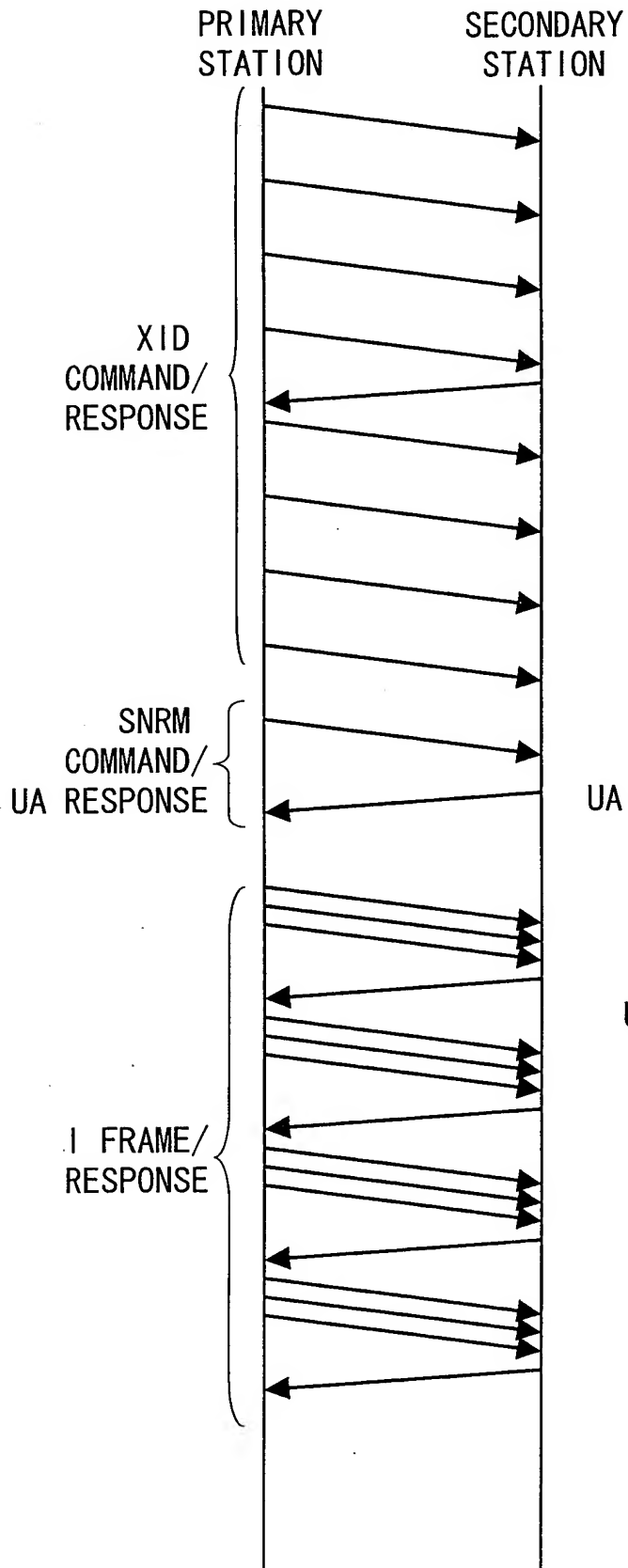


FIG. 9 (b)

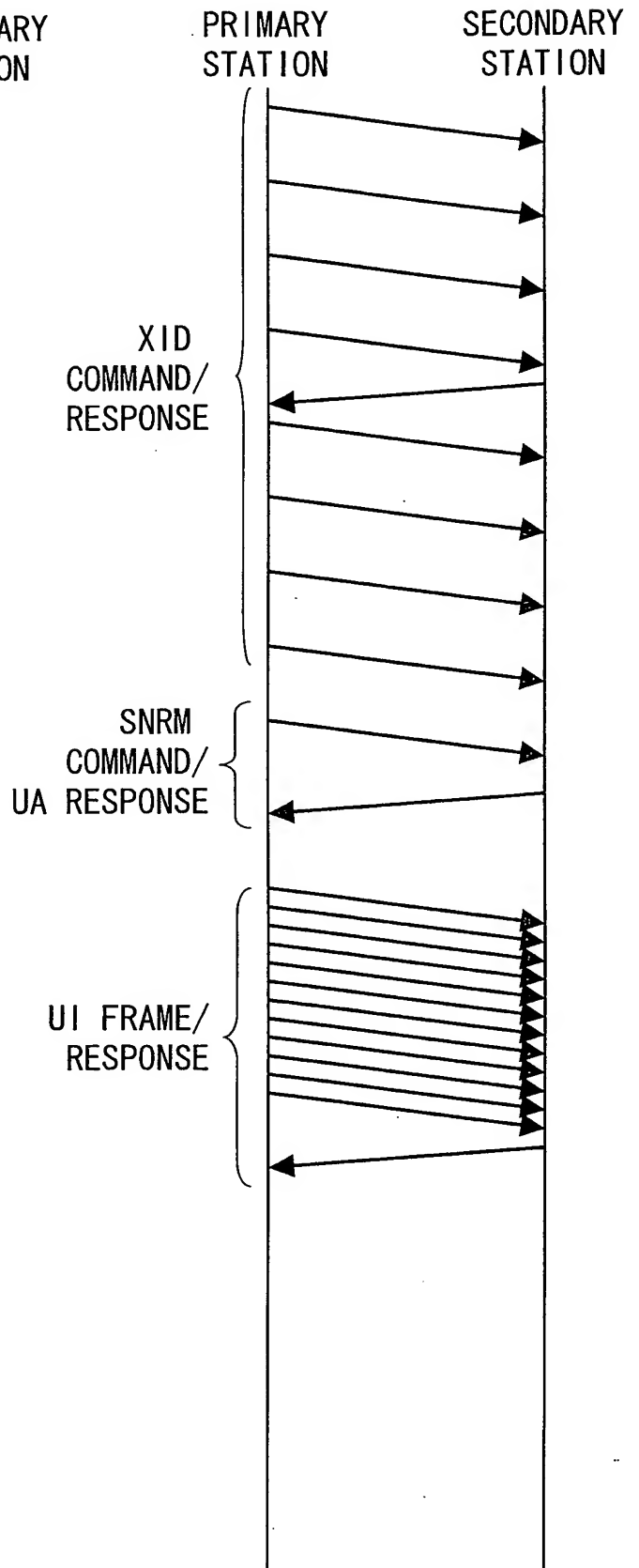


FIG. 10 (a)

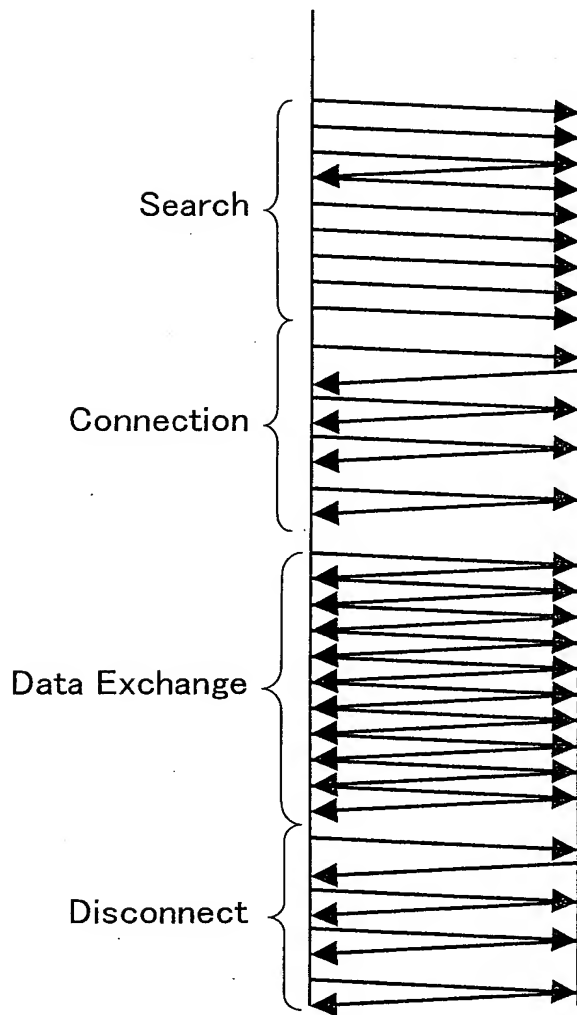


FIG. 10 (b)

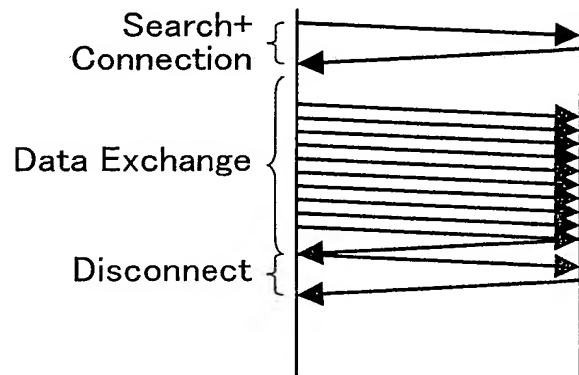


FIG. 10 (c)

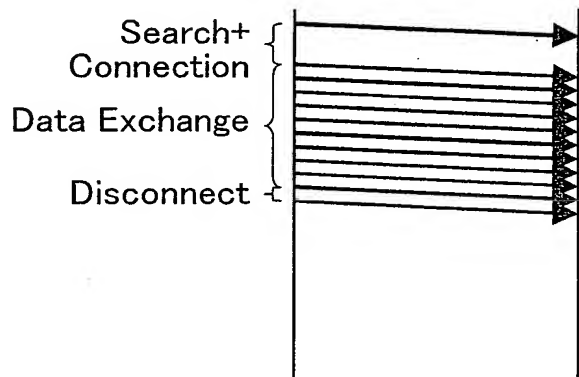


FIG. 11 (a)

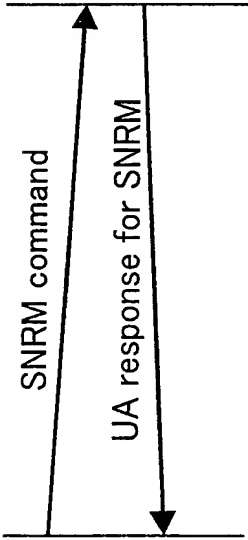


FIG. 11 (b)

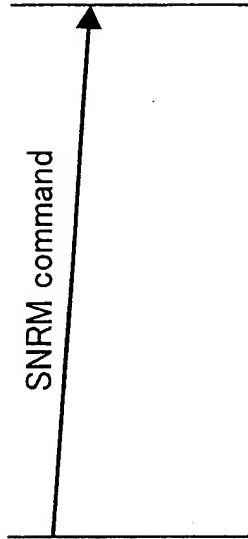


FIG. 11 (c)

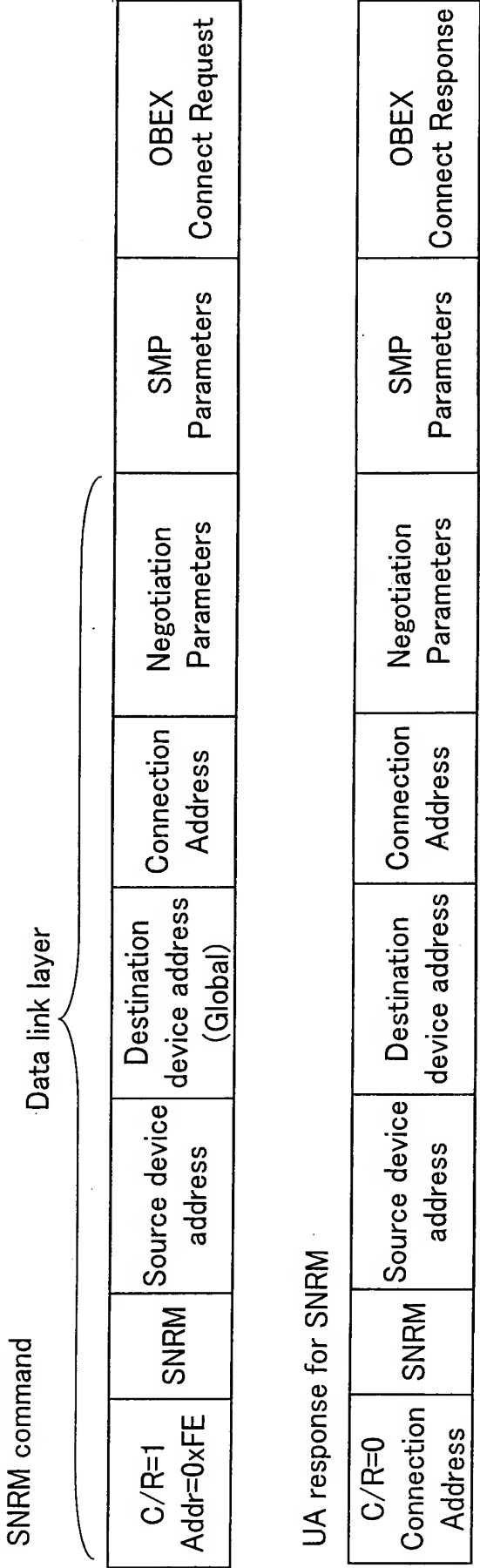


FIG. 12

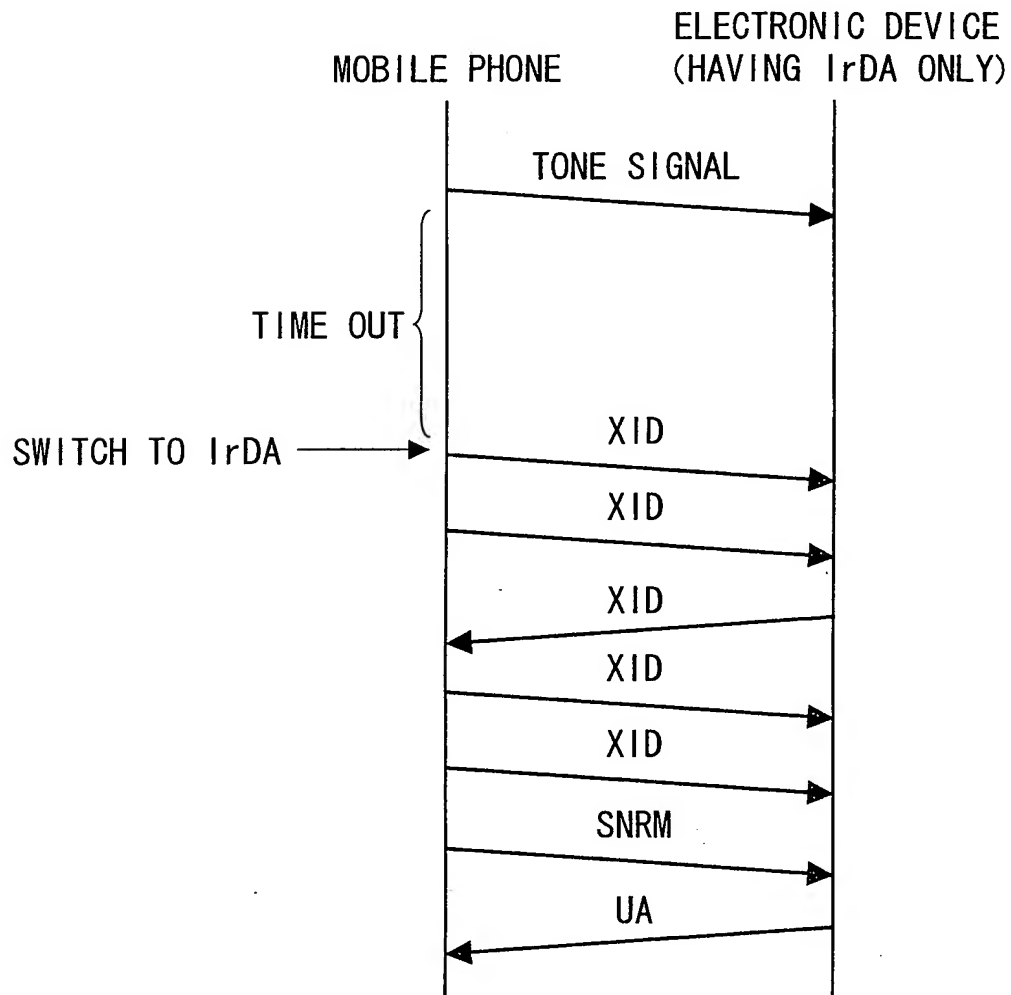


FIG. 13

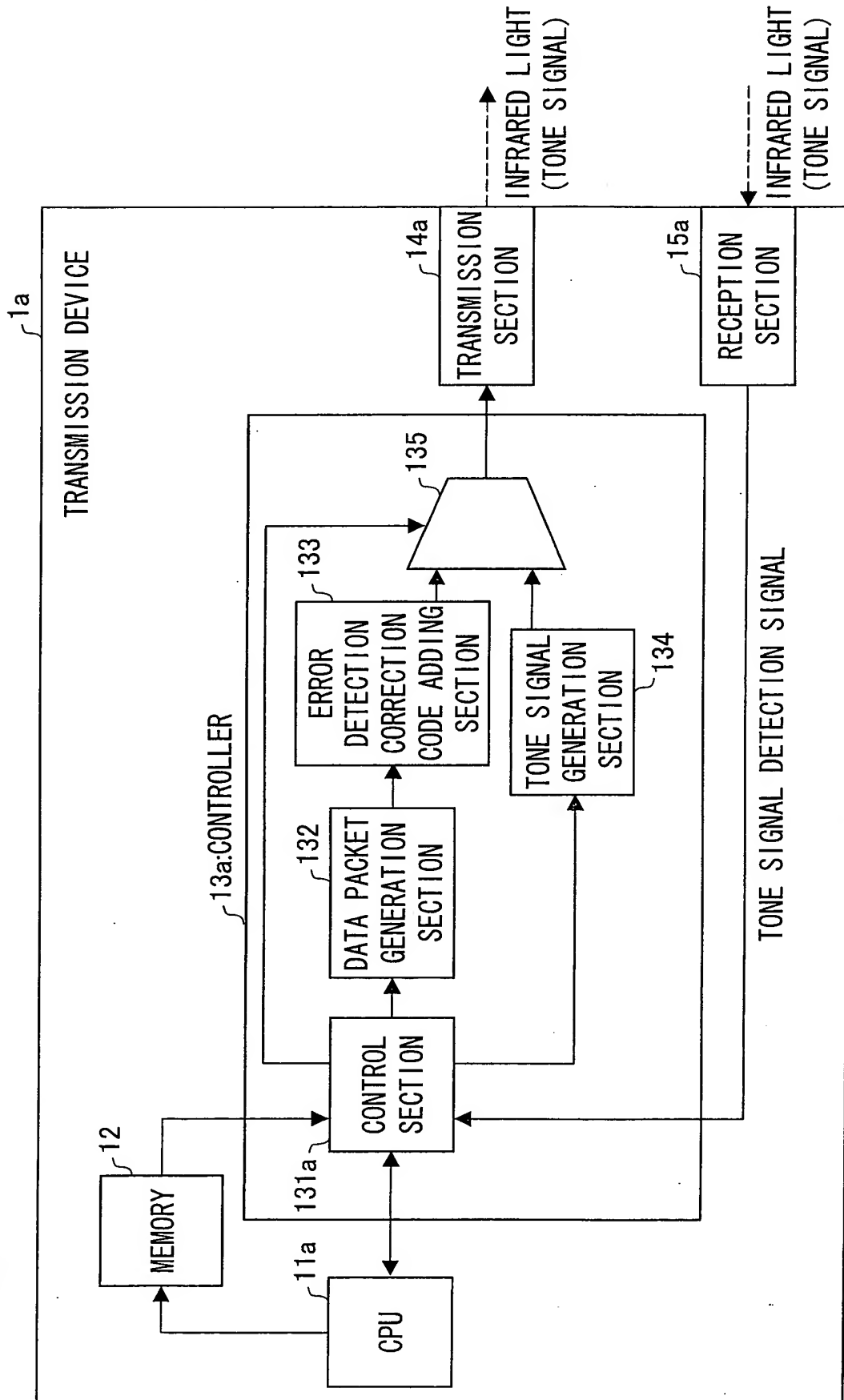


FIG. 14

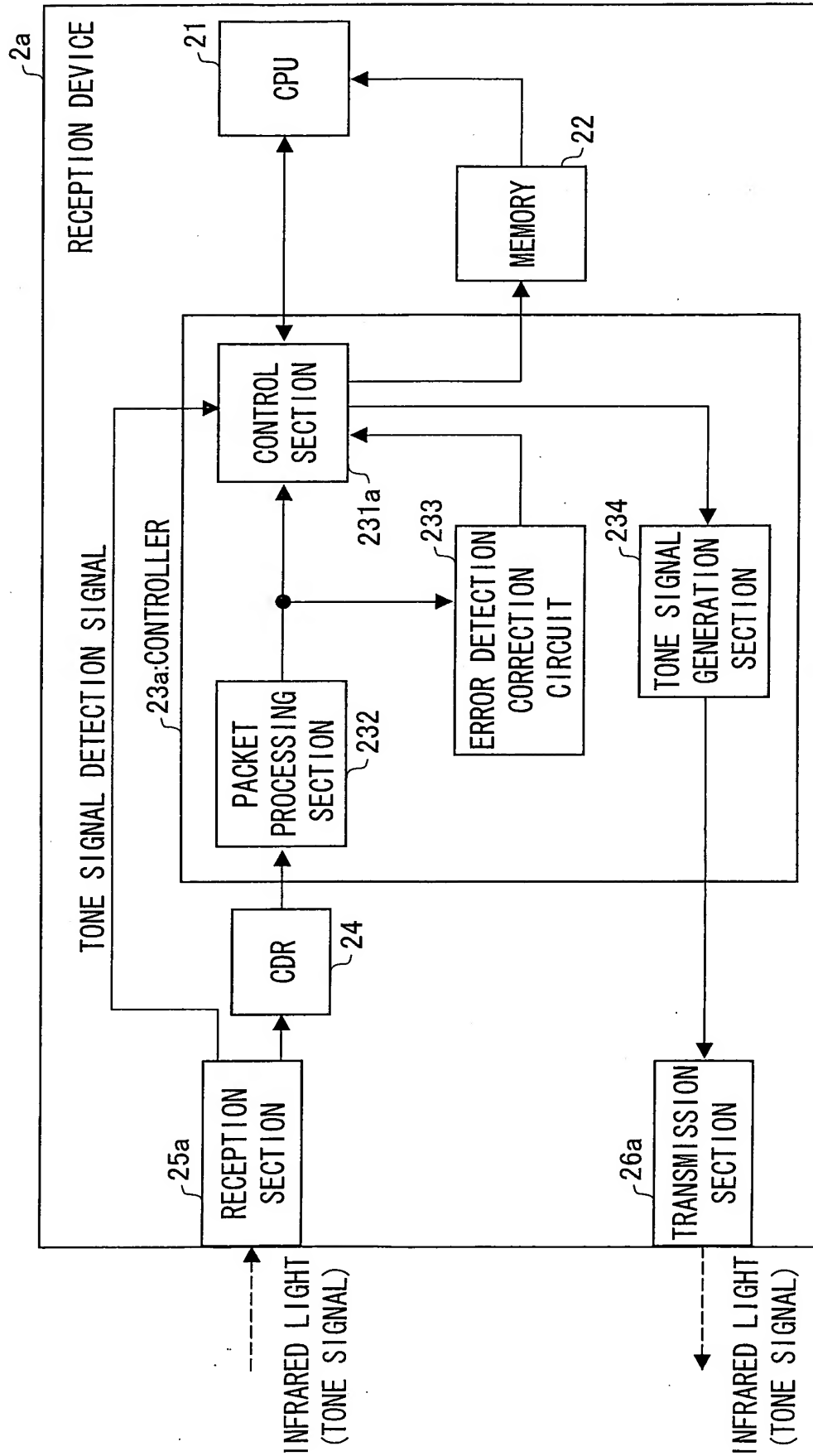


FIG. 15

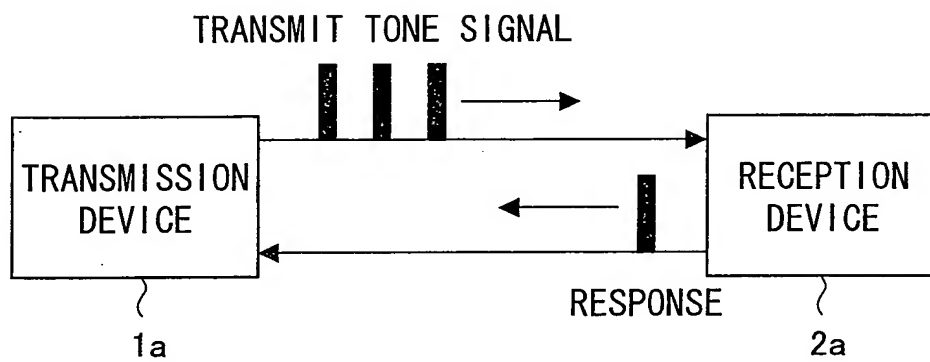


FIG. 16 (a)

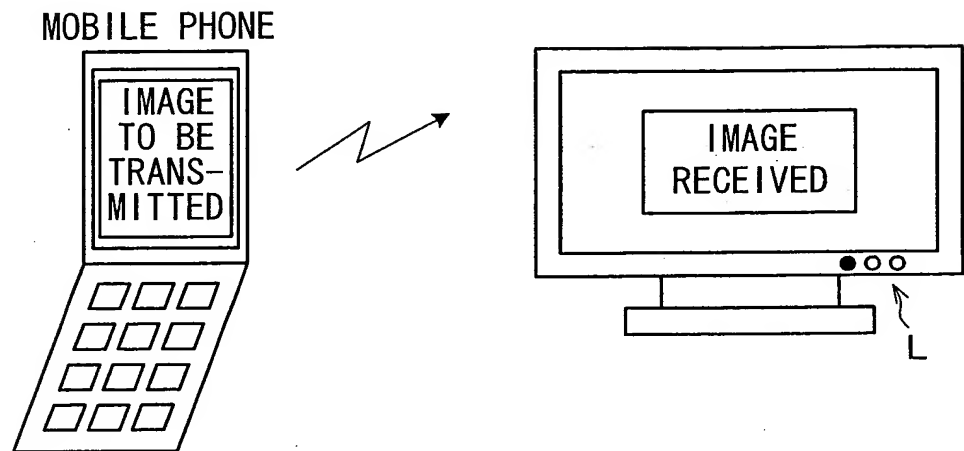


FIG. 16 (b)

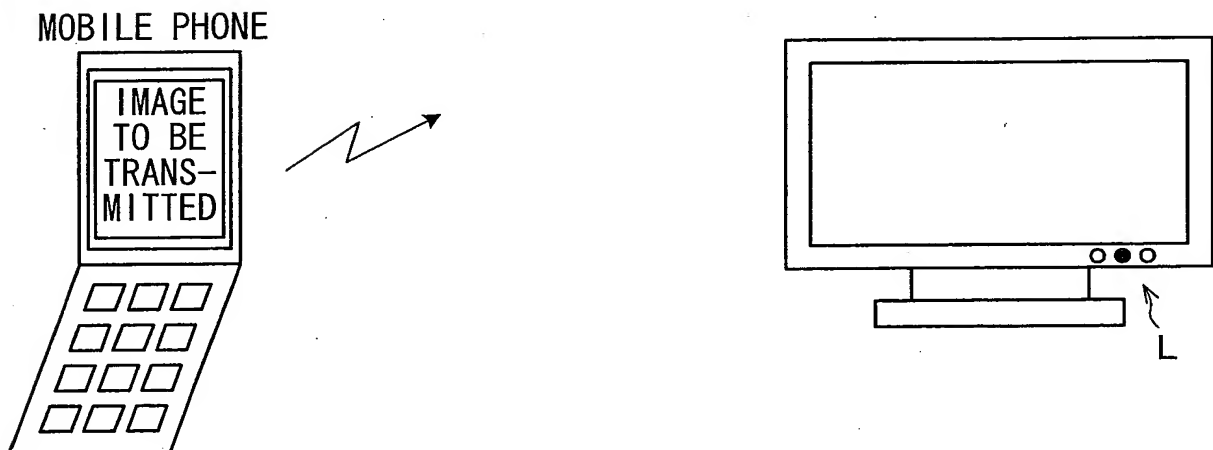


FIG. 16 (c)

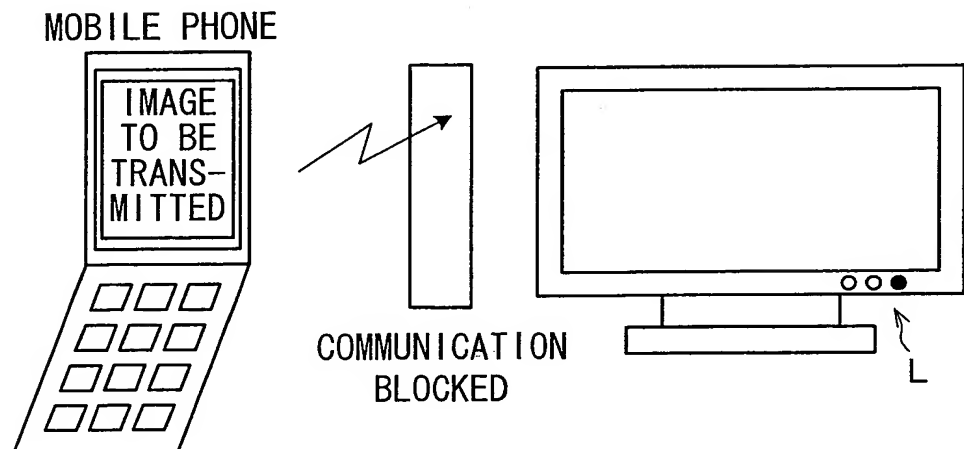


FIG. 17 (a)

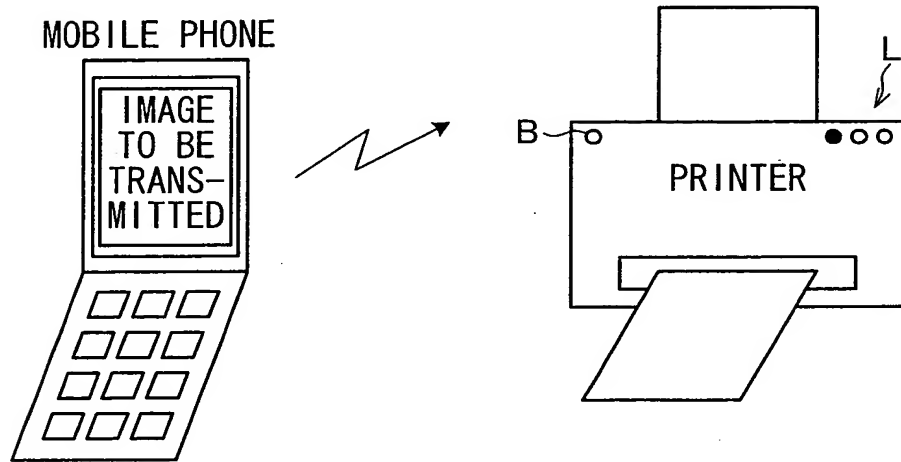


FIG. 17 (b)

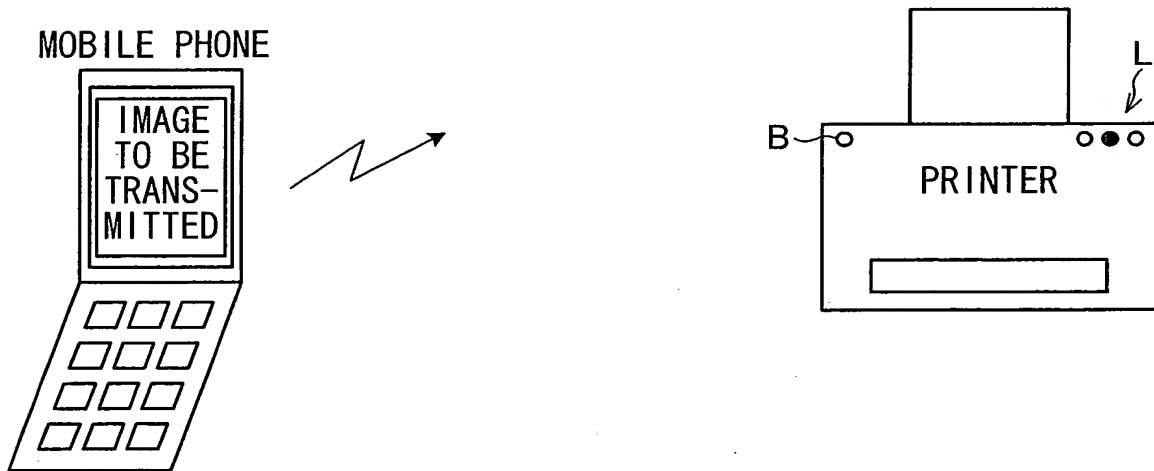


FIG. 17 (c)

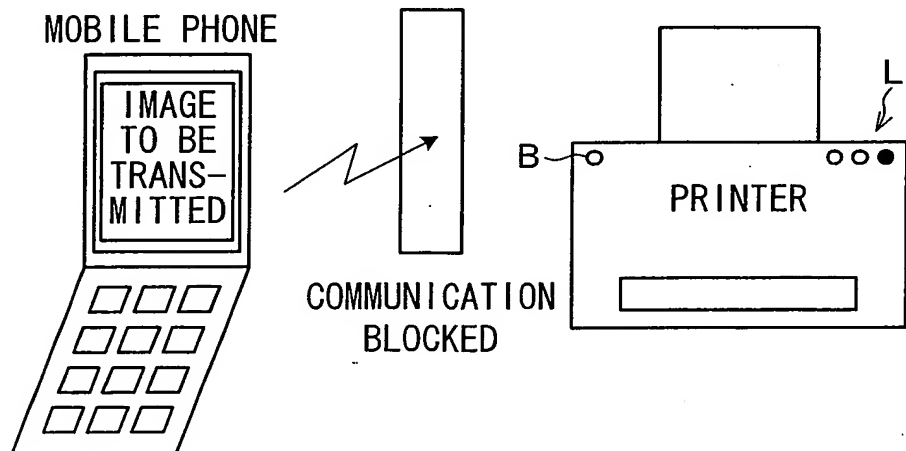


FIG. 18 (a)

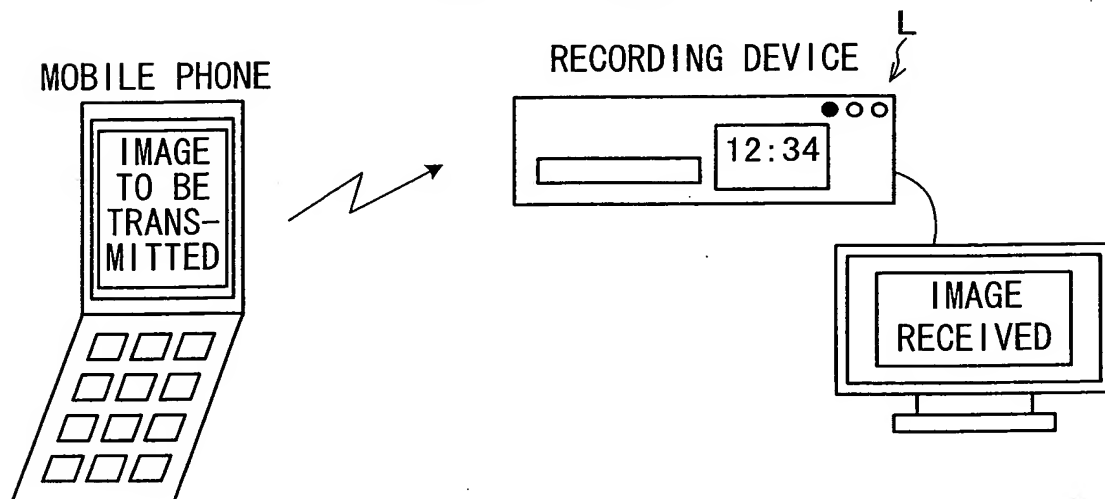


FIG. 18 (b)

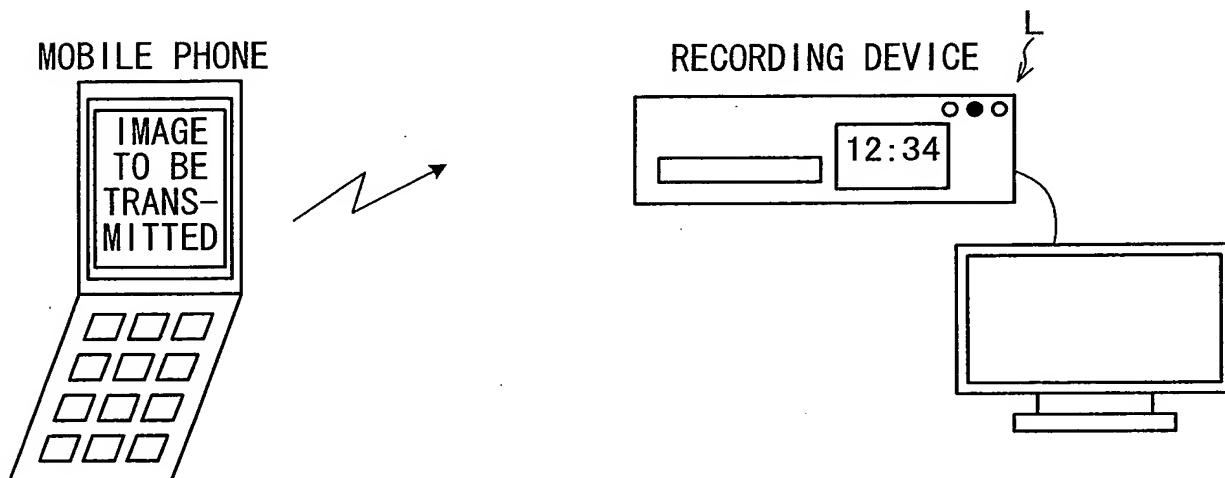


FIG. 18 (c)

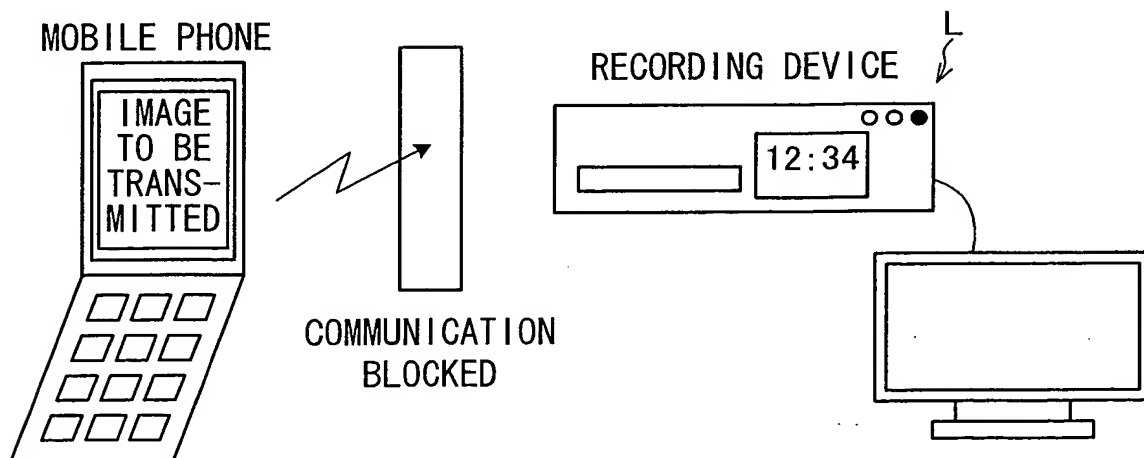


FIG. 19 (a)

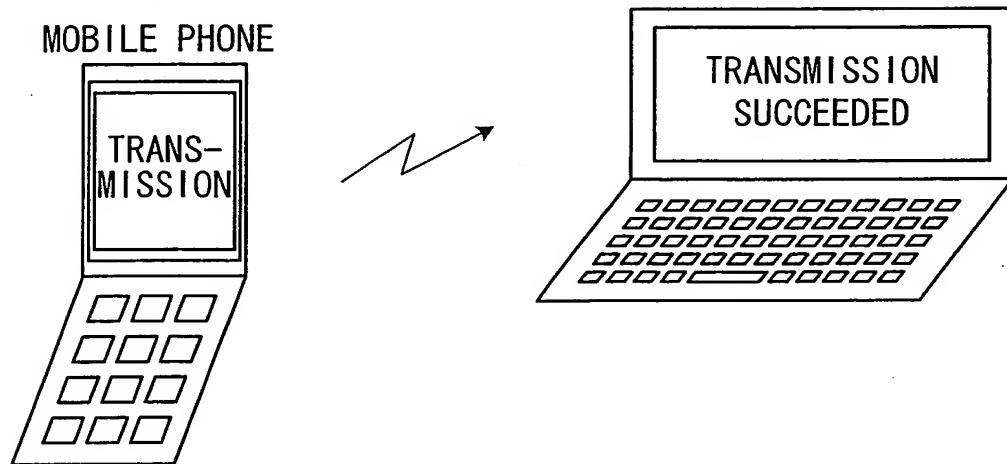


FIG. 19 (b)

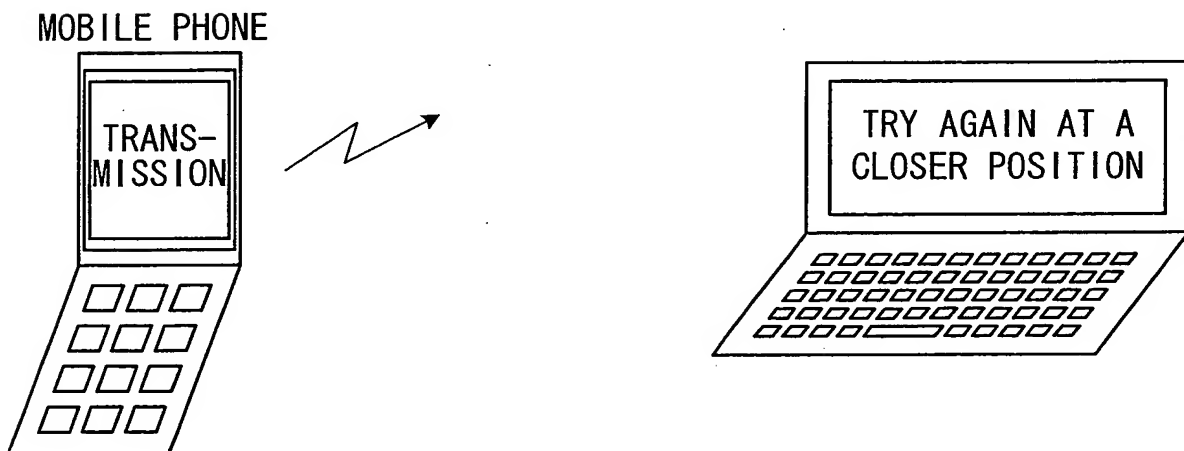


FIG. 19 (c)

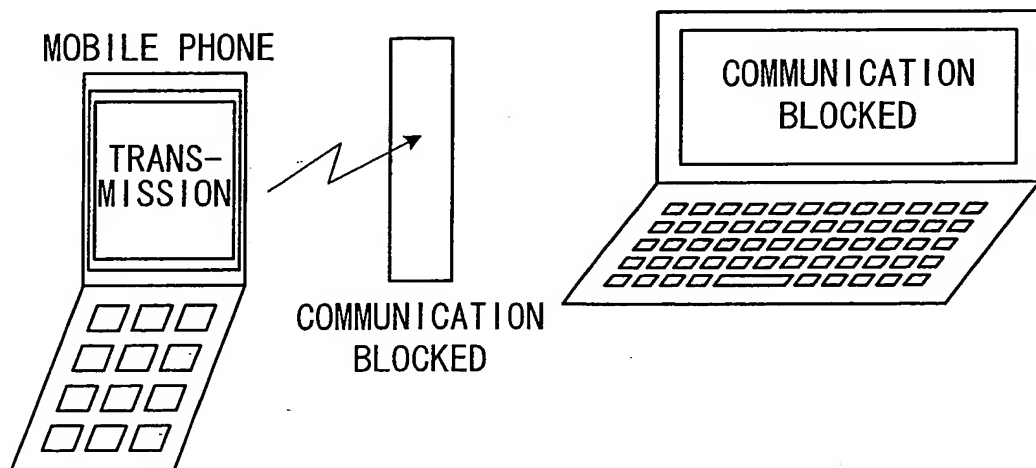


FIG. 20 (a)

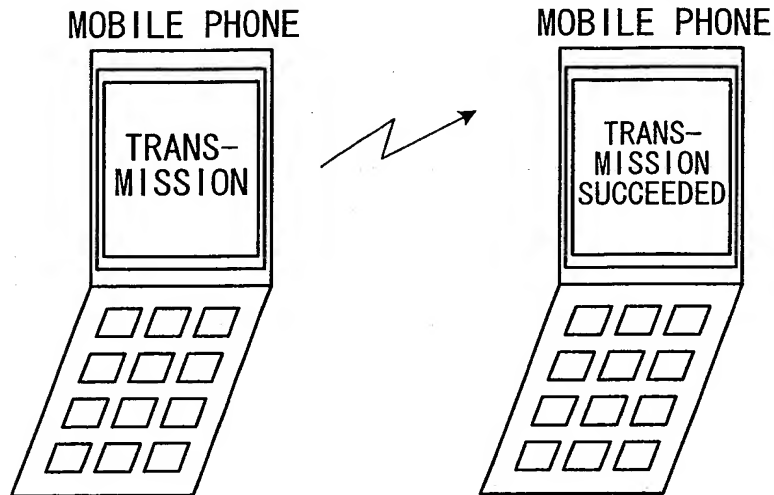


FIG. 20 (b)

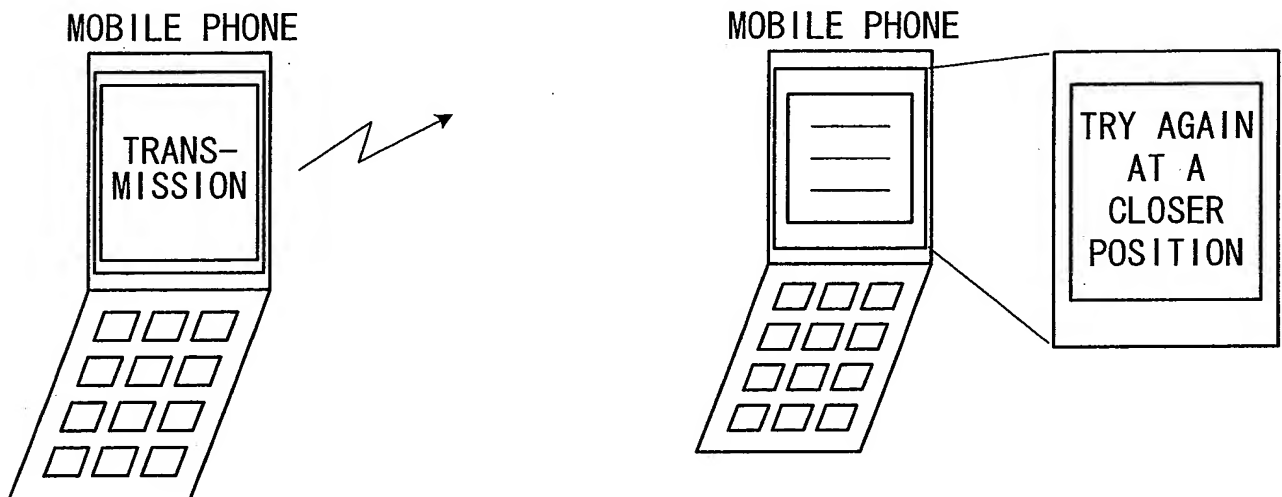


FIG. 20 (c)

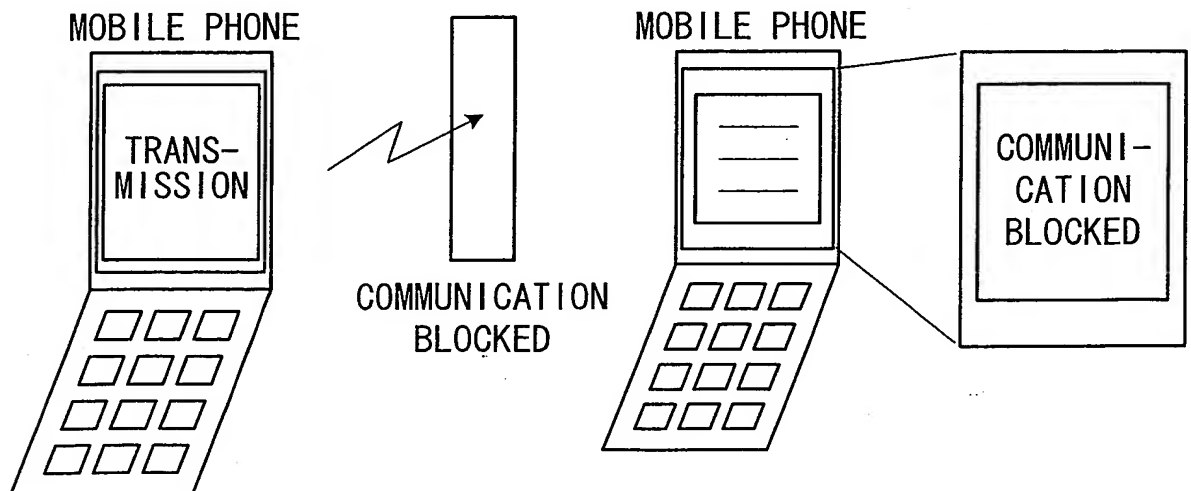


FIG. 21

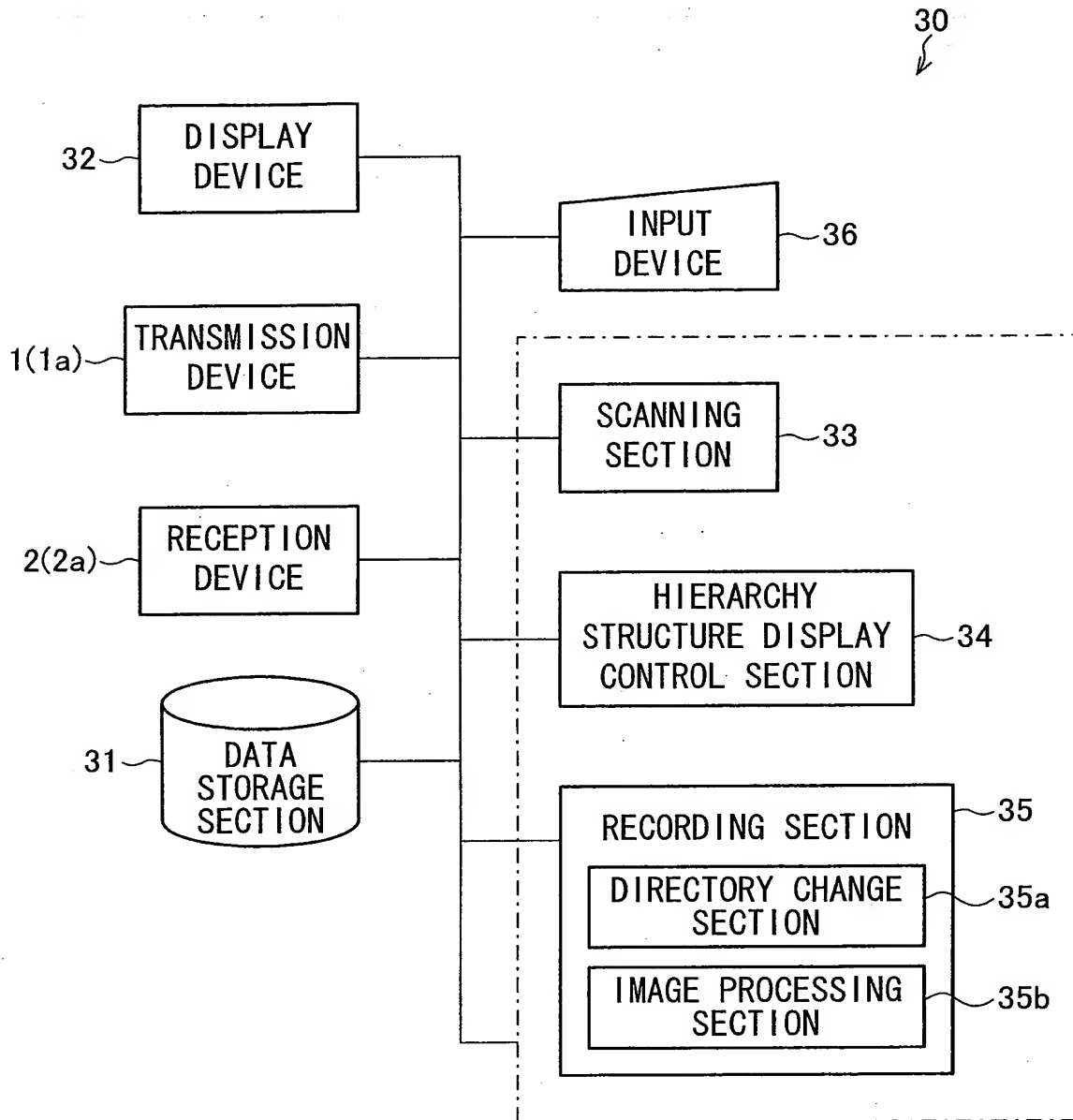


FIG. 22

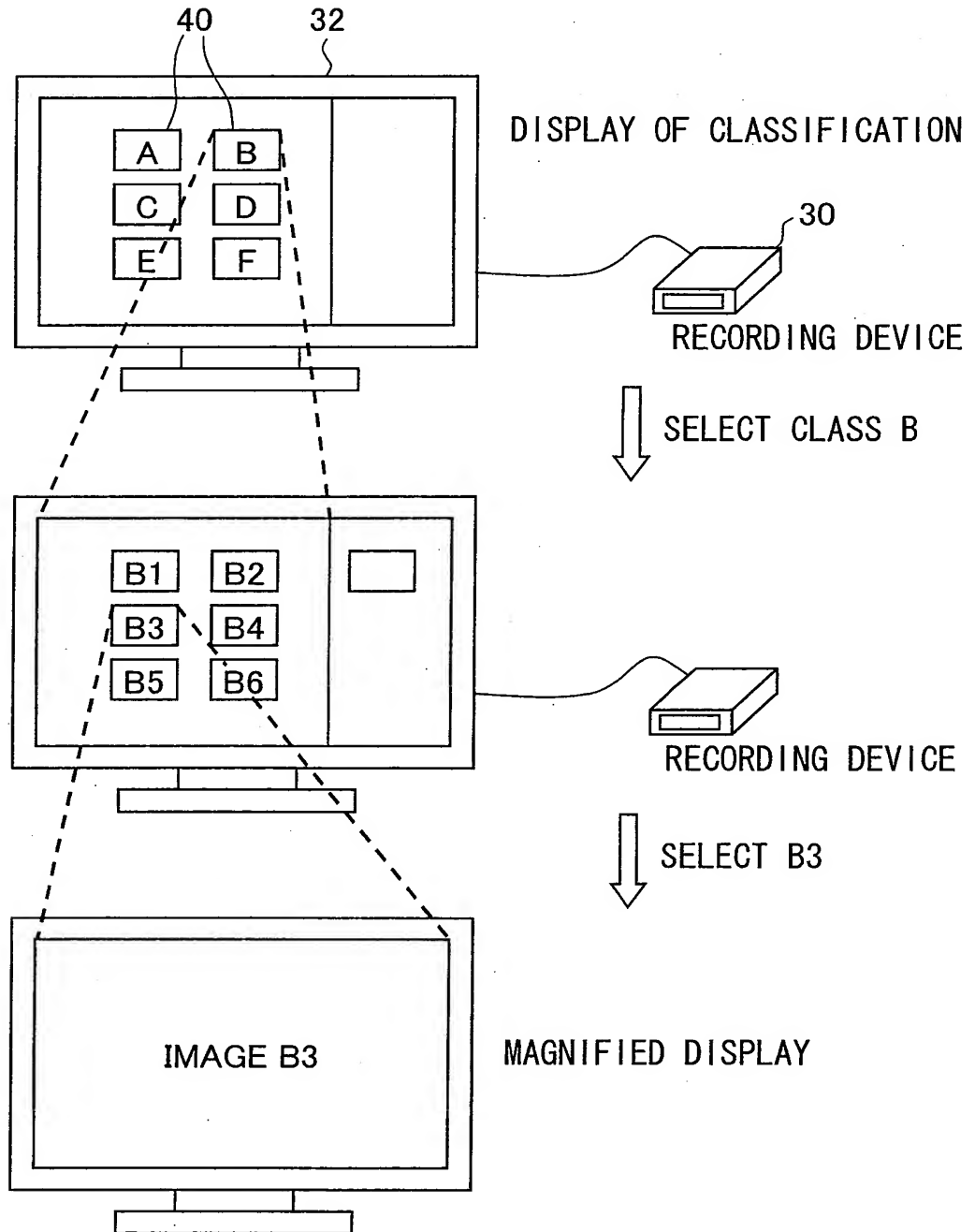


FIG. 23

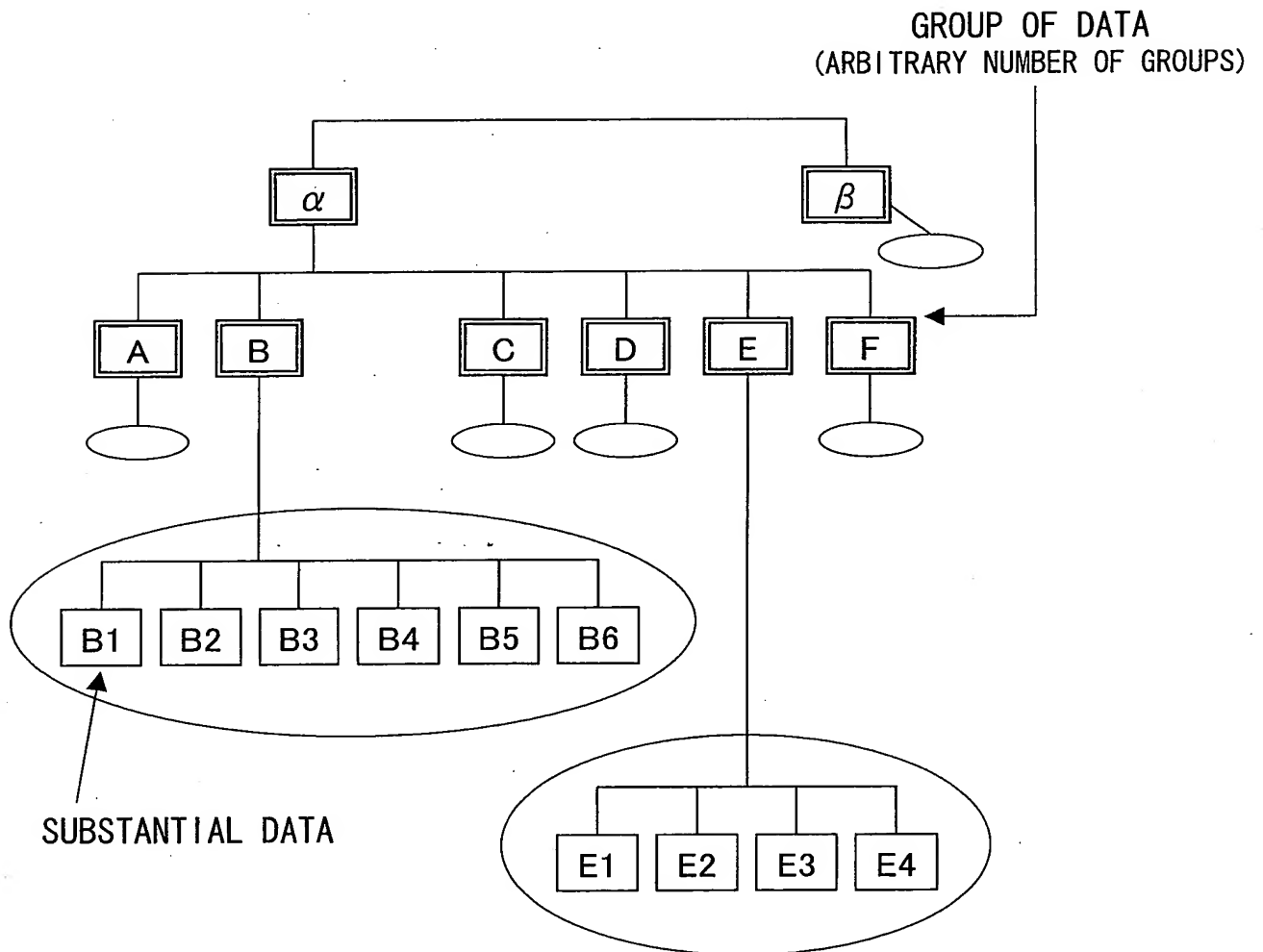


FIG. 24

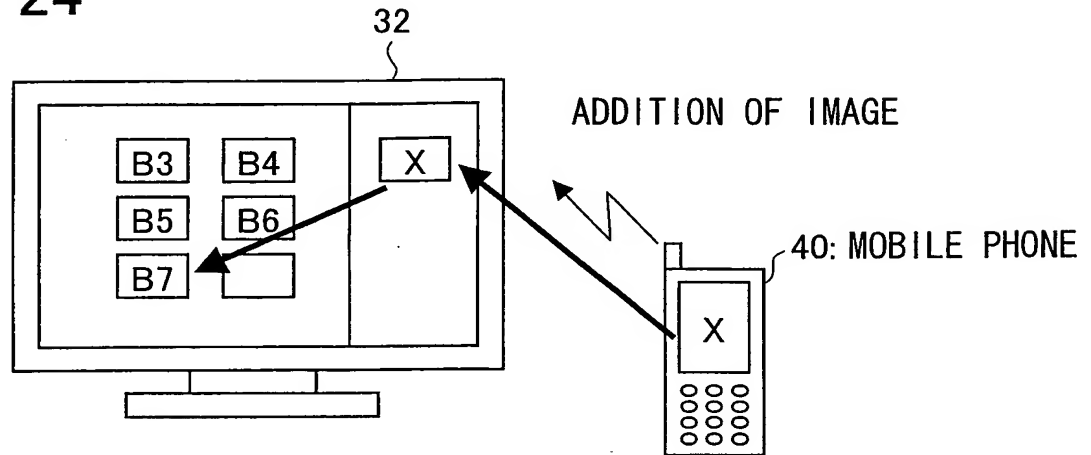


FIG. 25

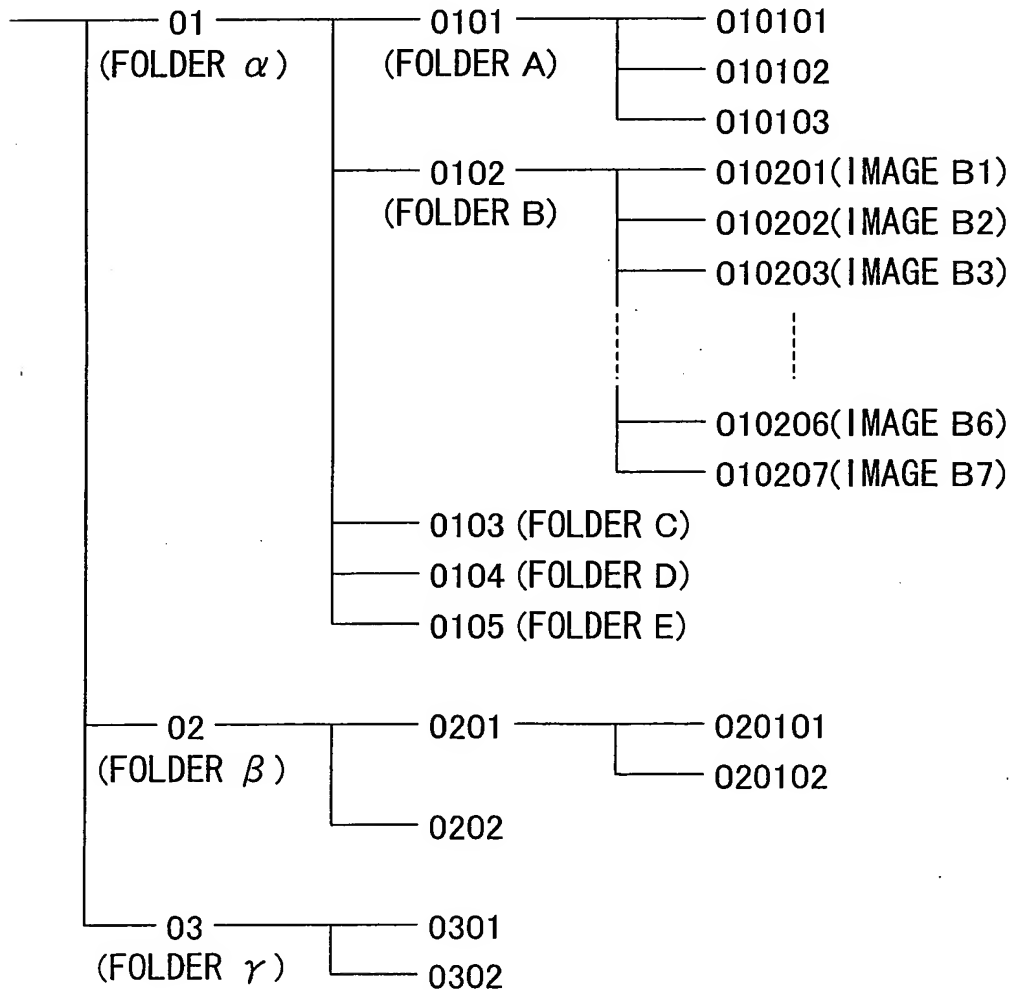


FIG. 26

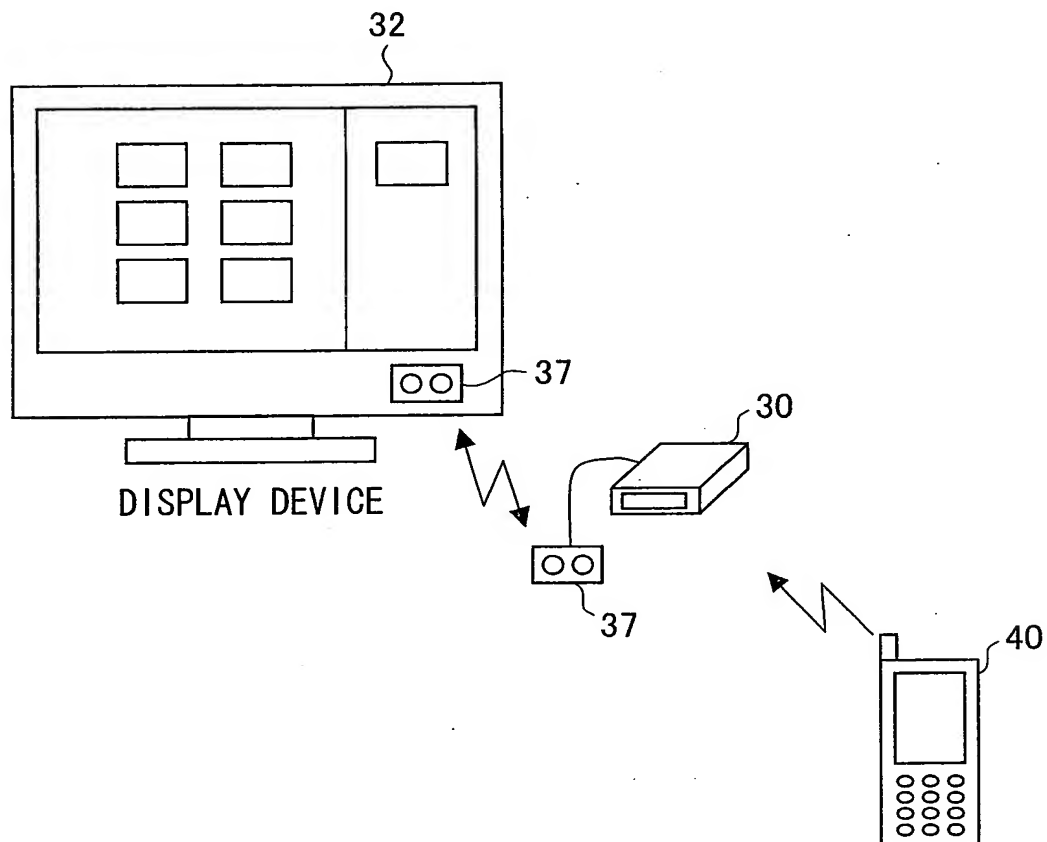


FIG. 27

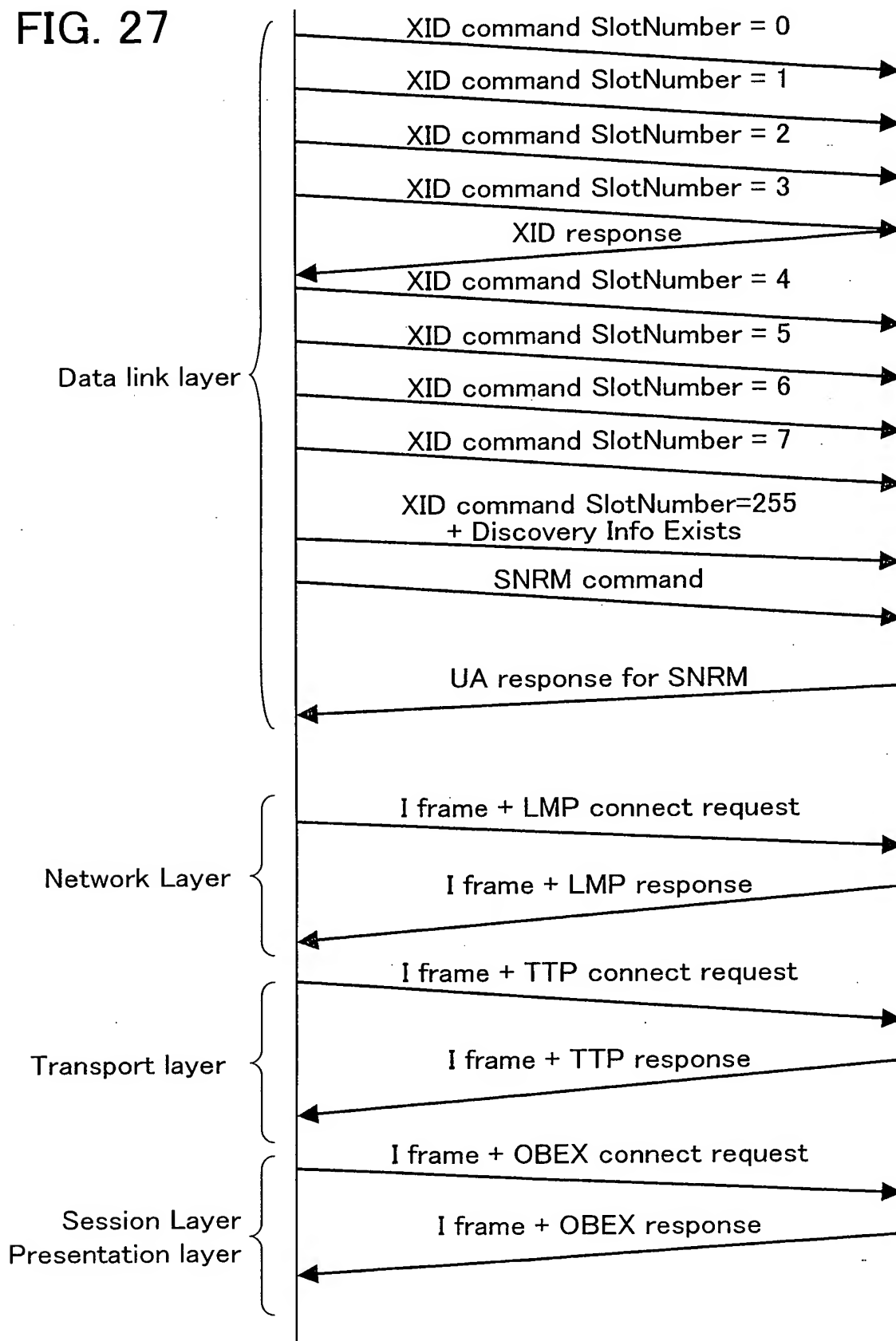


FIG. 28

XID command

C/R=1 Addr=0xFE	XID	Format Identifier	Source device address	Destination device address (Global)	Discovery Flag	Slot No.	Version No.	Discovery Info Exists
--------------------	-----	-------------------	-----------------------	-------------------------------------	----------------	----------	-------------	-----------------------

XID response

C/R=1 Addr=0xFE	XID	Format Identifier	Source device address	Destination device address	Discovery Flag	Slot No.	Version No.
--------------------	-----	-------------------	-----------------------	----------------------------	----------------	----------	-------------

SNRM command

C/R=1 Addr=0xFE	SNRM	Source device address	Destination device address	Connection Address	Negotiation Parameters
--------------------	------	-----------------------	----------------------------	--------------------	------------------------

UA response for SNRM

C/R=0 Connection Address	SNRM	Source device address	Destination device address	Connection Address	Negotiation Parameters
-----------------------------	------	-----------------------	----------------------------	--------------------	------------------------

I frame + LMP connect request

Addr	Nr/Ns	LMP connect request
------	-------	---------------------

I frame + LMP response

Addr	Nr/Ns	LMP response
------	-------	--------------

I frame + TTP connect request

Addr	Nr/Ns	LSAP	TTP connect request
------	-------	------	---------------------

I frame + TTP response

Addr	Nr/Ns	LSAP	TTP response
------	-------	------	--------------

I frame + OBEX connect request

Addr	Nr/Ns	LSAP	TTP Header	OBEX connect request
------	-------	------	------------	----------------------

I frame + OBEX response

Addr	Nr/Ns	LSAP	TTP Header	OBEX response
------	-------	------	------------	---------------

FIG. 29

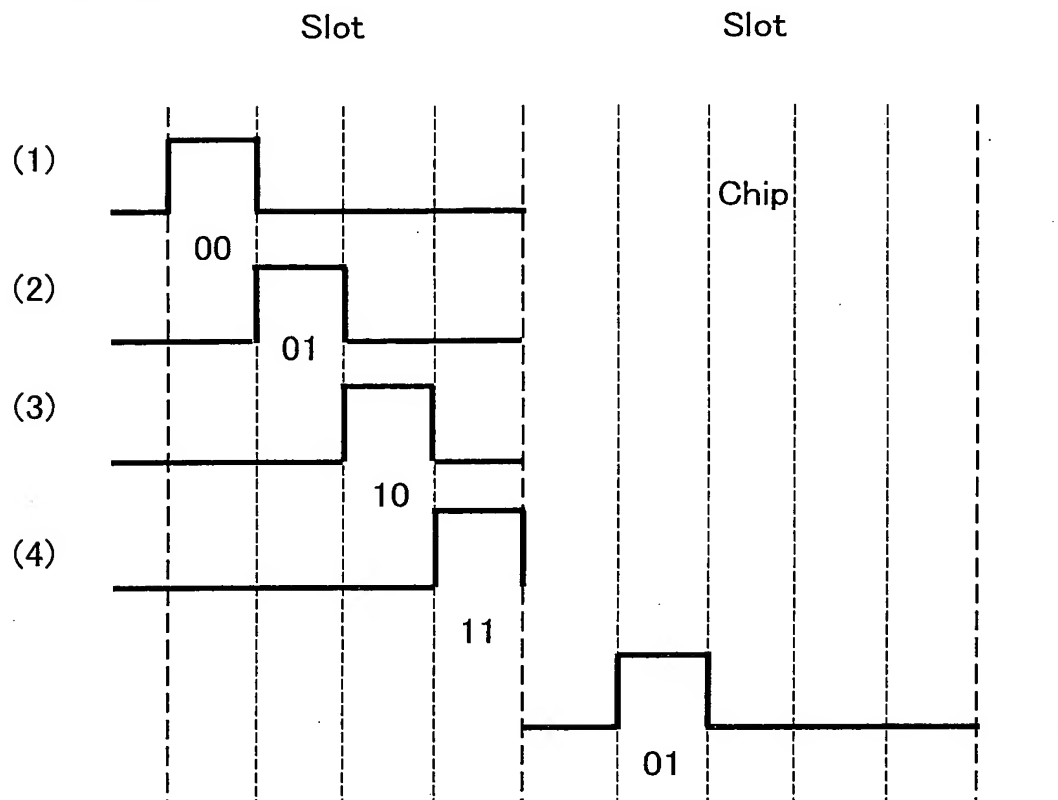


FIG. 30

PREAMBLE FIELD	START FLAG	ADDRESS FIELD	CONTROL FIELD	DATA FIELD	FCS	STOP FLAG
-------------------	---------------	------------------	------------------	---------------	-----	--------------

FIG. 31

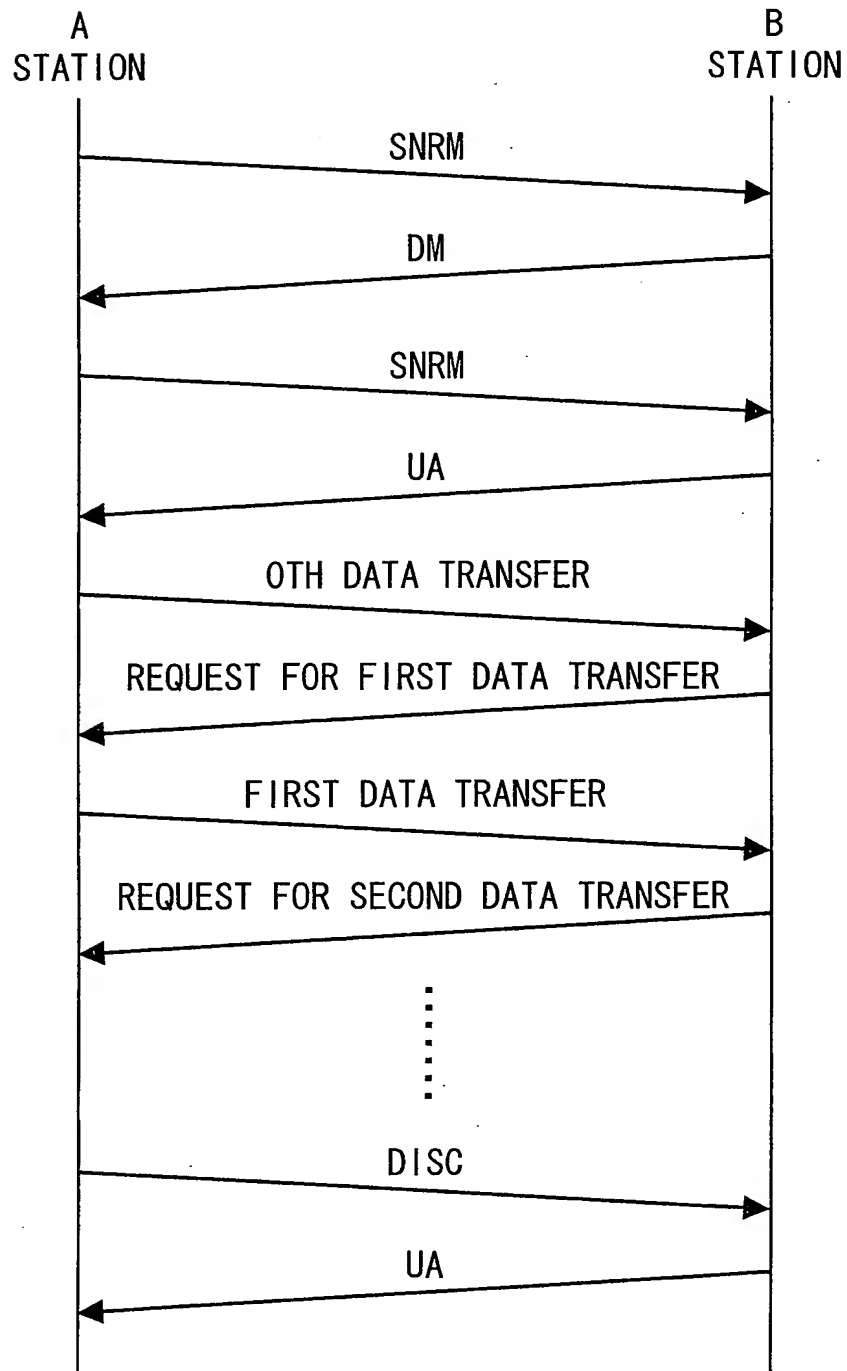


FIG. 32 (a)

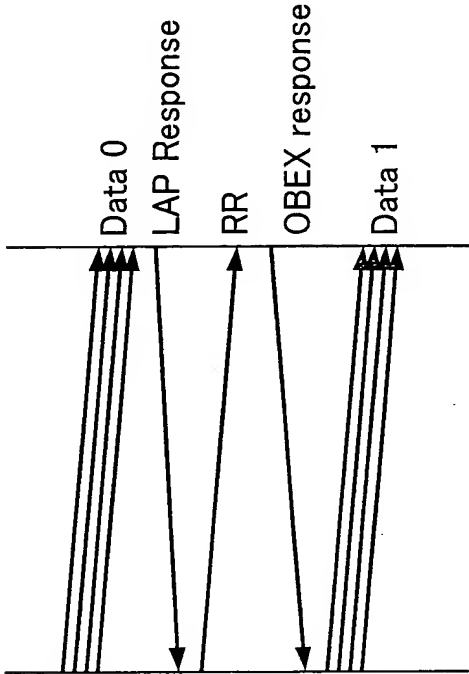


FIG. 32 (b)

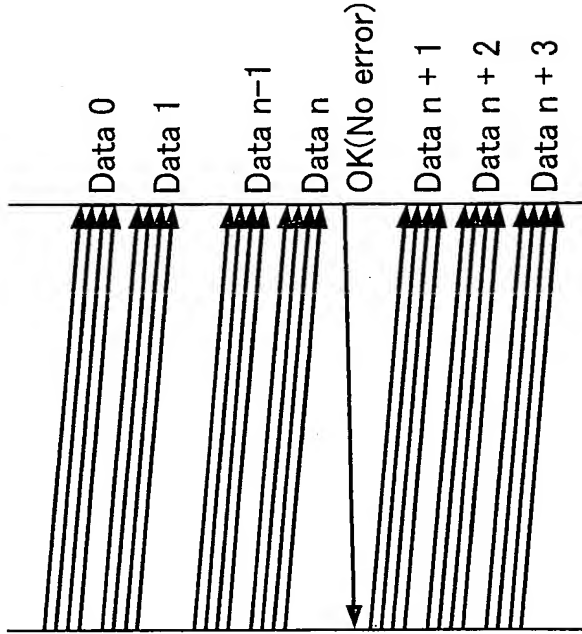


FIG. 32 (c)

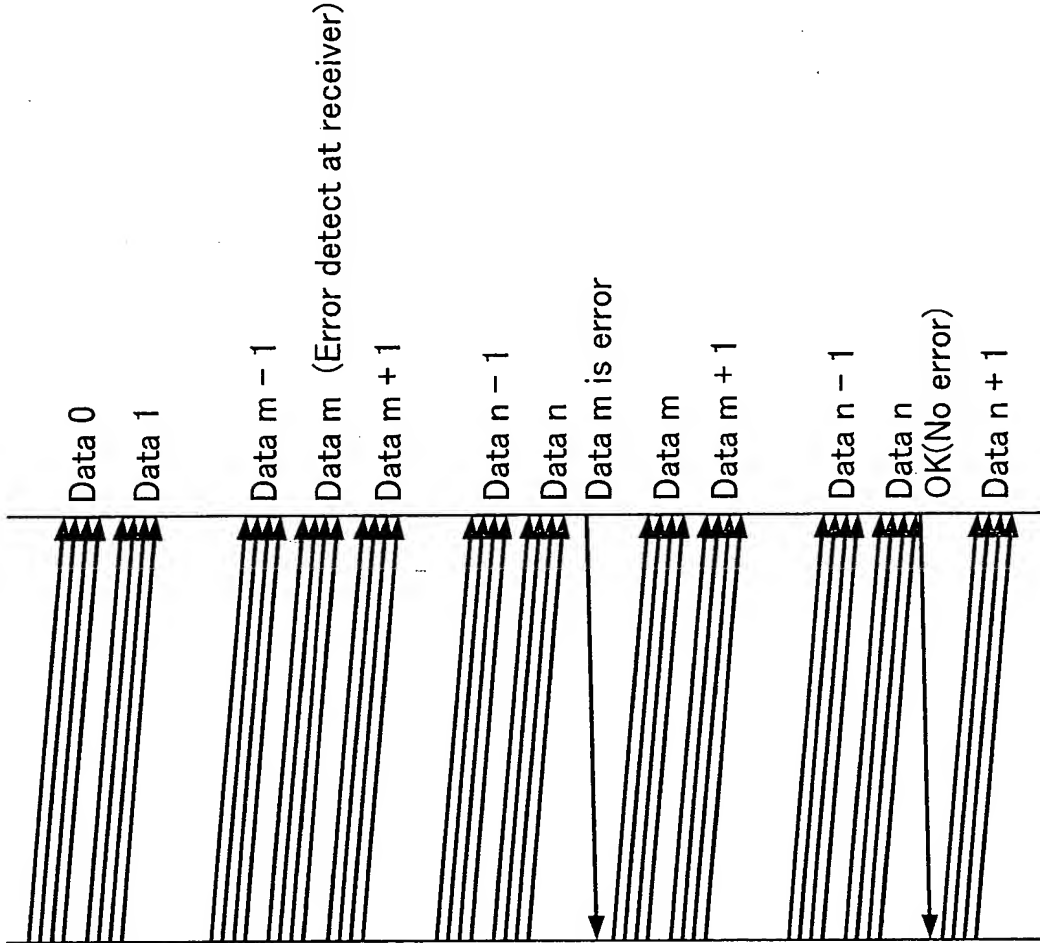


FIG. 33 (a)

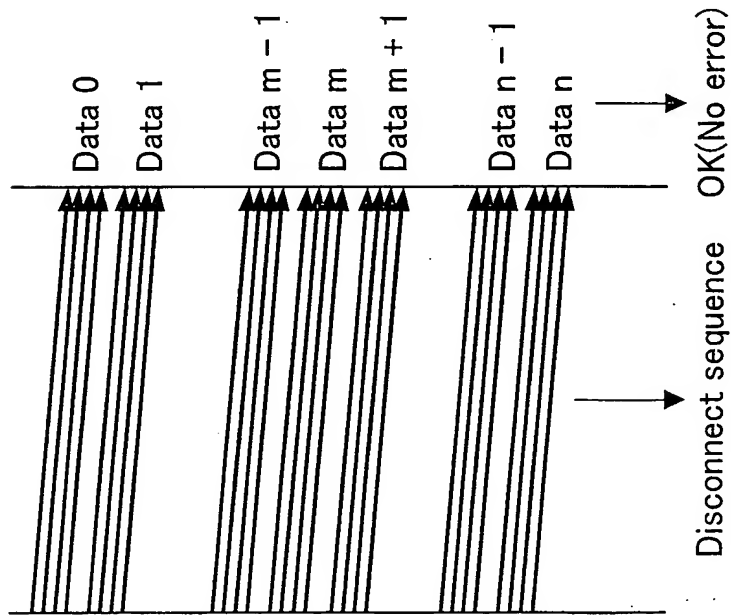


FIG. 33 (b)

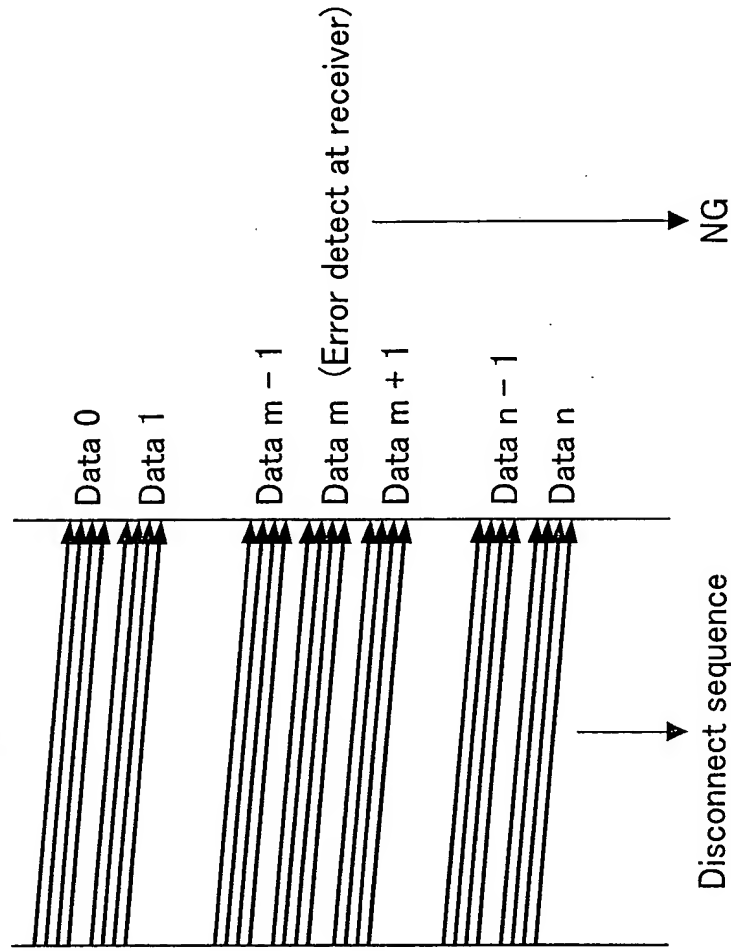


FIG. 34

OSI 7 HIERARCHY

APPLICATION LAYER
PRESENTATION LAYER
SESSION LAYER
TRANSPORT LAYER
NETWORK LAYER
DATA LINK LAYER
PHYSICAL LAYER

IrDA HIERARCHY

FILE EXCHANGE	PRINTING	ELECTRONIC TRANS- ACTION
IrMC, IrFM, TranP (OBEX, IrCOM)		
TinyTP		
IrLMP		
IrLAP		
IrPHY		

HIERARCHY OF PRESENT INVENTION

FILE EXCHANGE	PRINTING	ELECTRONIC TRANS- ACTION
IrMC, IrFM, TranP (OBEX, IrCOM)		
SMP		
IrLMP IrSimple Addition		
IrLAP IrSimple Addition		
IrPHY		

FIG. 35 (a)

IrDA DATA FRAME (I FRAME)

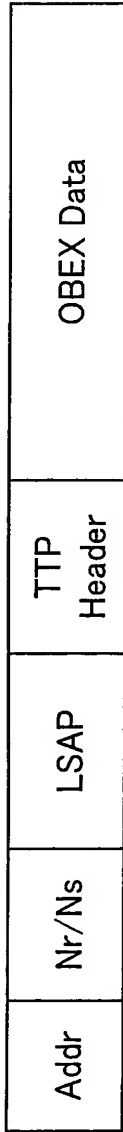


FIG. 35 (b)

DATA FRAME OF PRESENT INVENTION (UI FRAME)

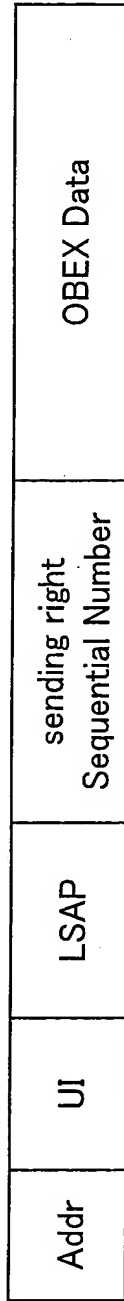


FIG. 36 (a)

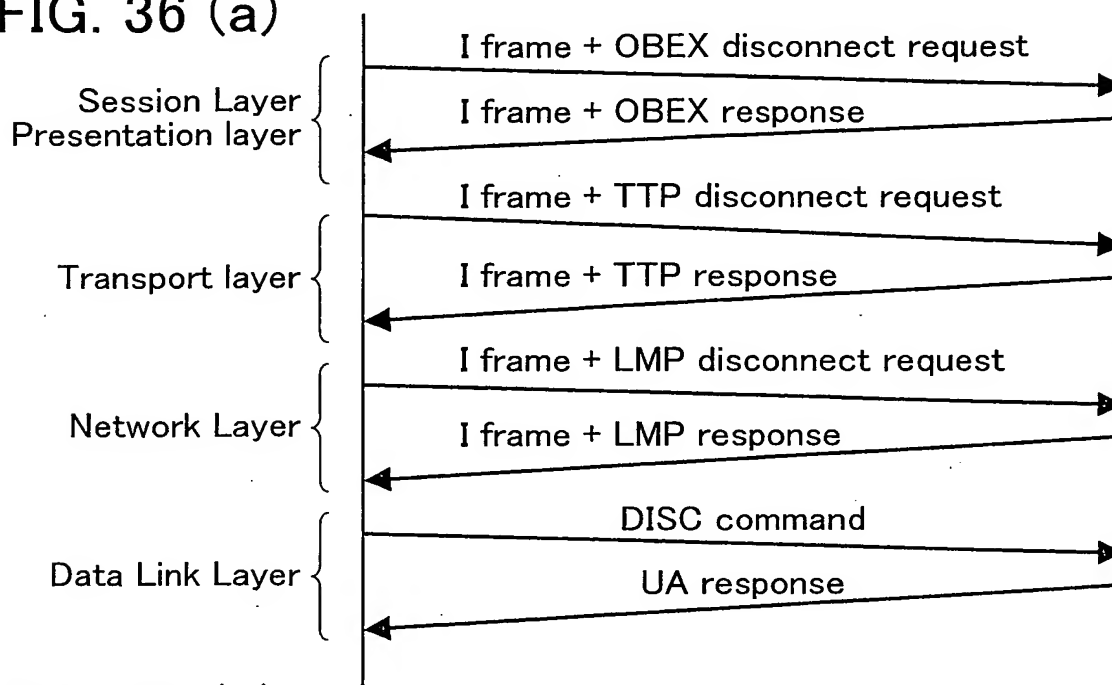


FIG. 36 (b)

I frame + OBEX disconnect request

Addr	Nr/Ns	LSAP	TTP Header	OBEX disconnect request
------	-------	------	------------	-------------------------

I frame + OBEX response

Addr	Nr/Ns	LSAP	TTP Header	OBEX response
------	-------	------	------------	---------------

I frame + TTP disconnect request

Addr	Nr/Ns	LSAP	TTP disconnect request
------	-------	------	------------------------

I frame + TTP response

Addr	Nr/Ns	LSAP	TTP response
------	-------	------	--------------

I frame + LMP disconnect request

Addr	Nr/Ns	LMP disconnect request
------	-------	------------------------

I frame + LMP response

Addr	Nr/Ns	LMP response
------	-------	--------------

DISC command

Addr	DISC
------	------

UA response

Addr	UA
------	----

FIG. 37 (a)

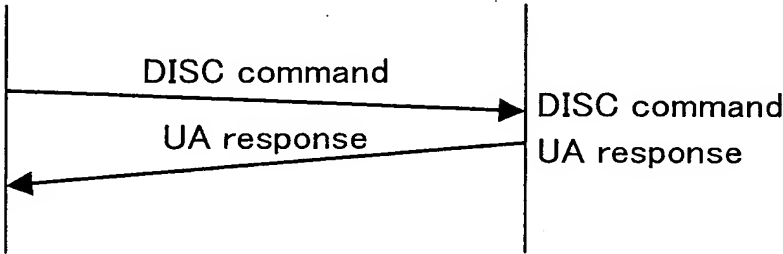


FIG. 37 (b)

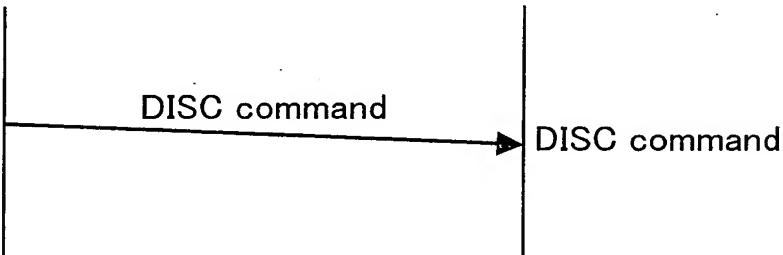


FIG. 37 (c)

Addr	DISC	OBEX Disconnect command	DISC command
Addr	UA	OBEX Disconnect response	UA response

FIG. 38

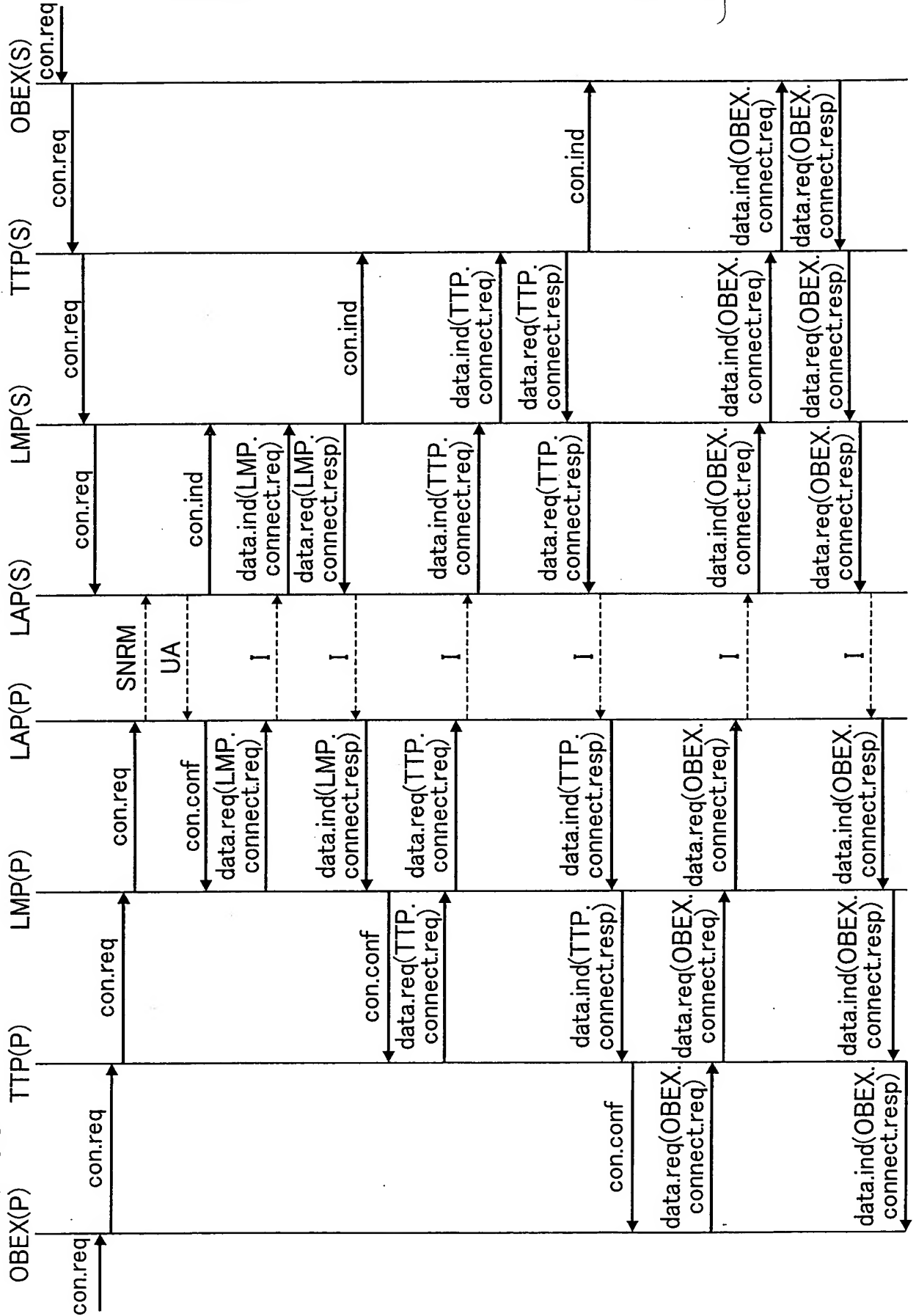
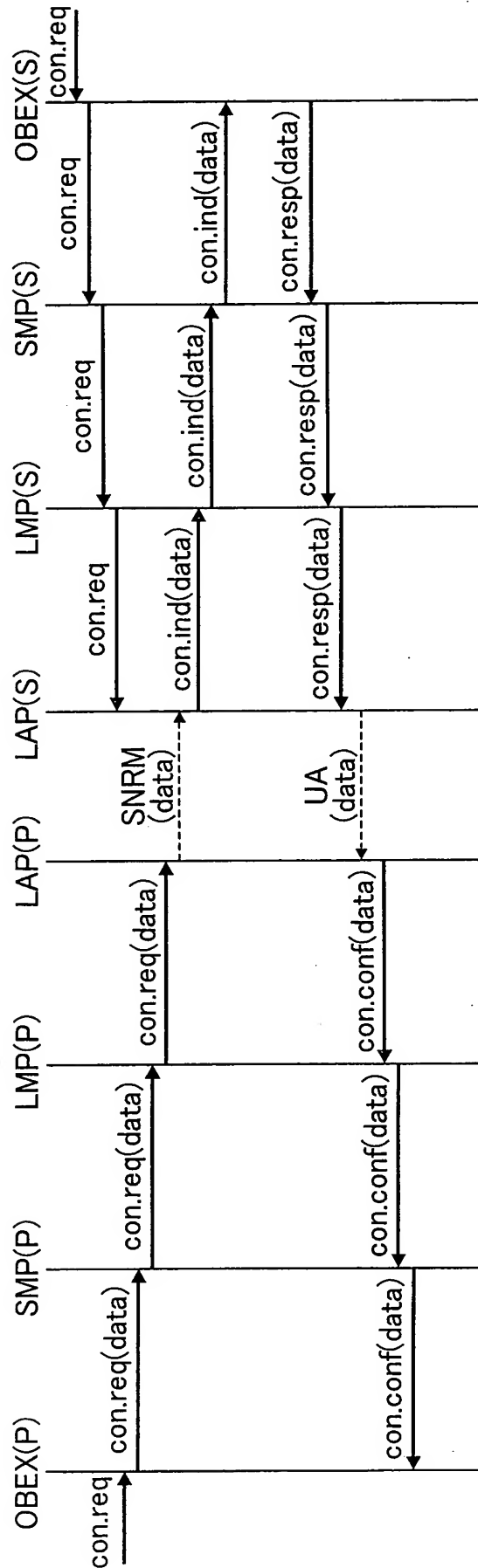


FIG. 39



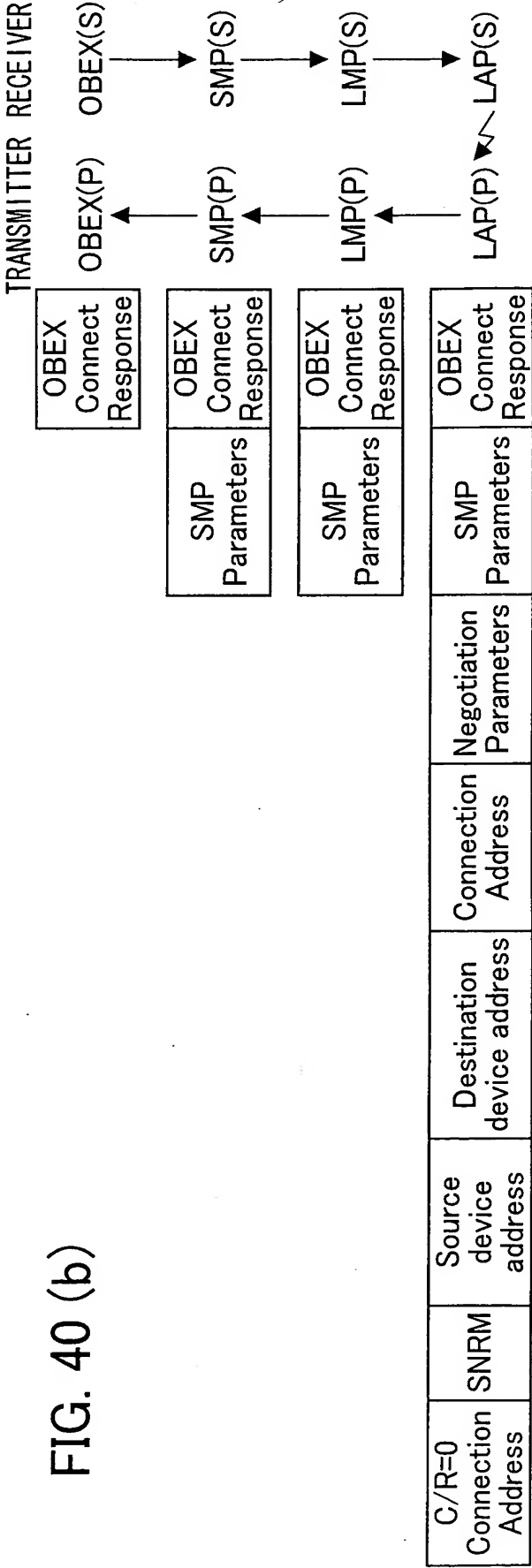
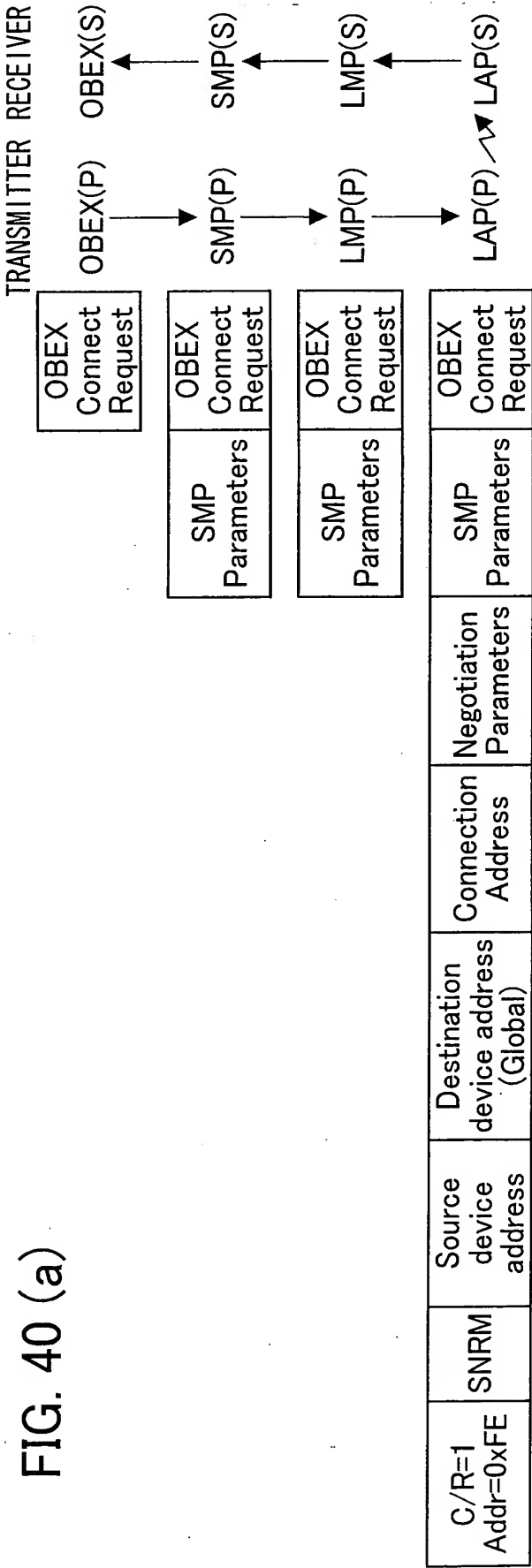


FIG. 41

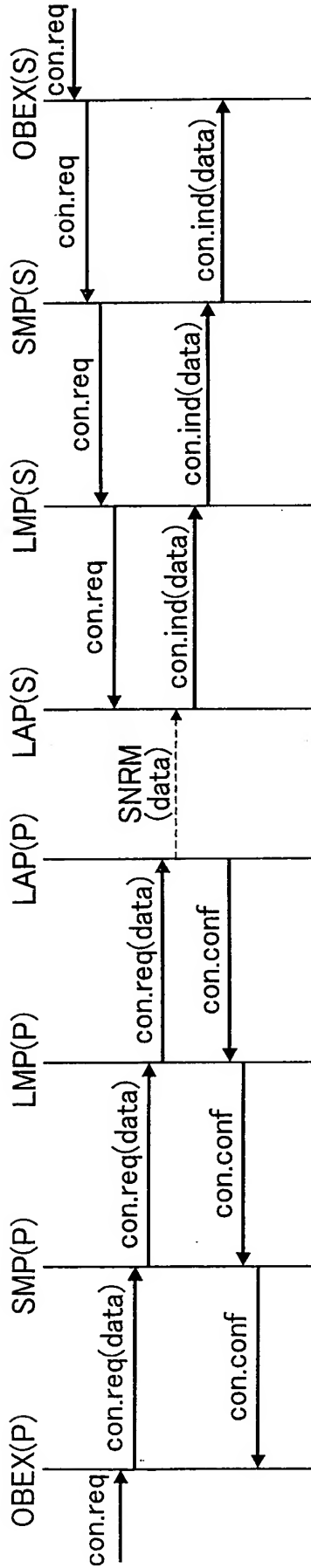


FIG. 42

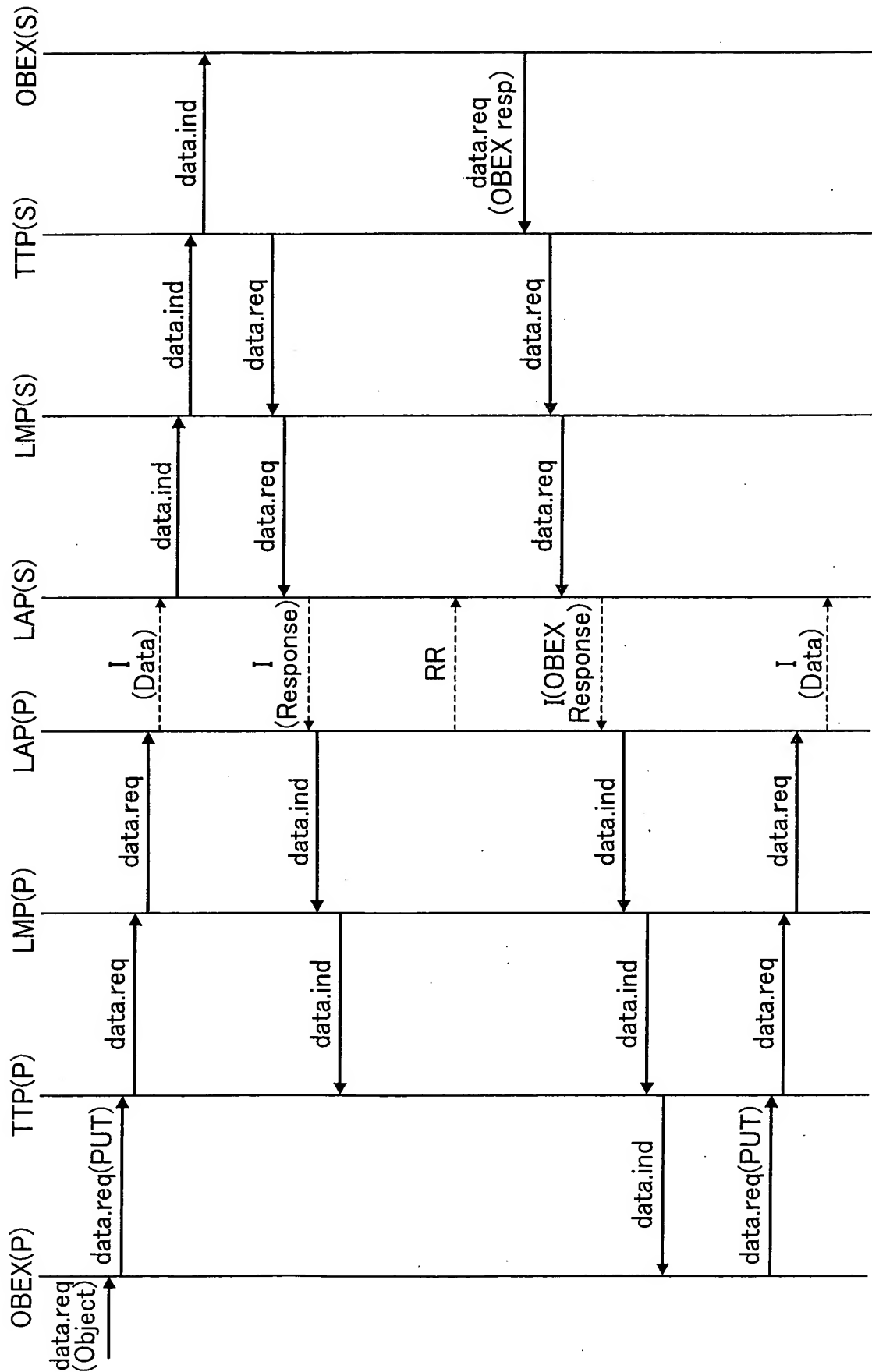


FIG. 43

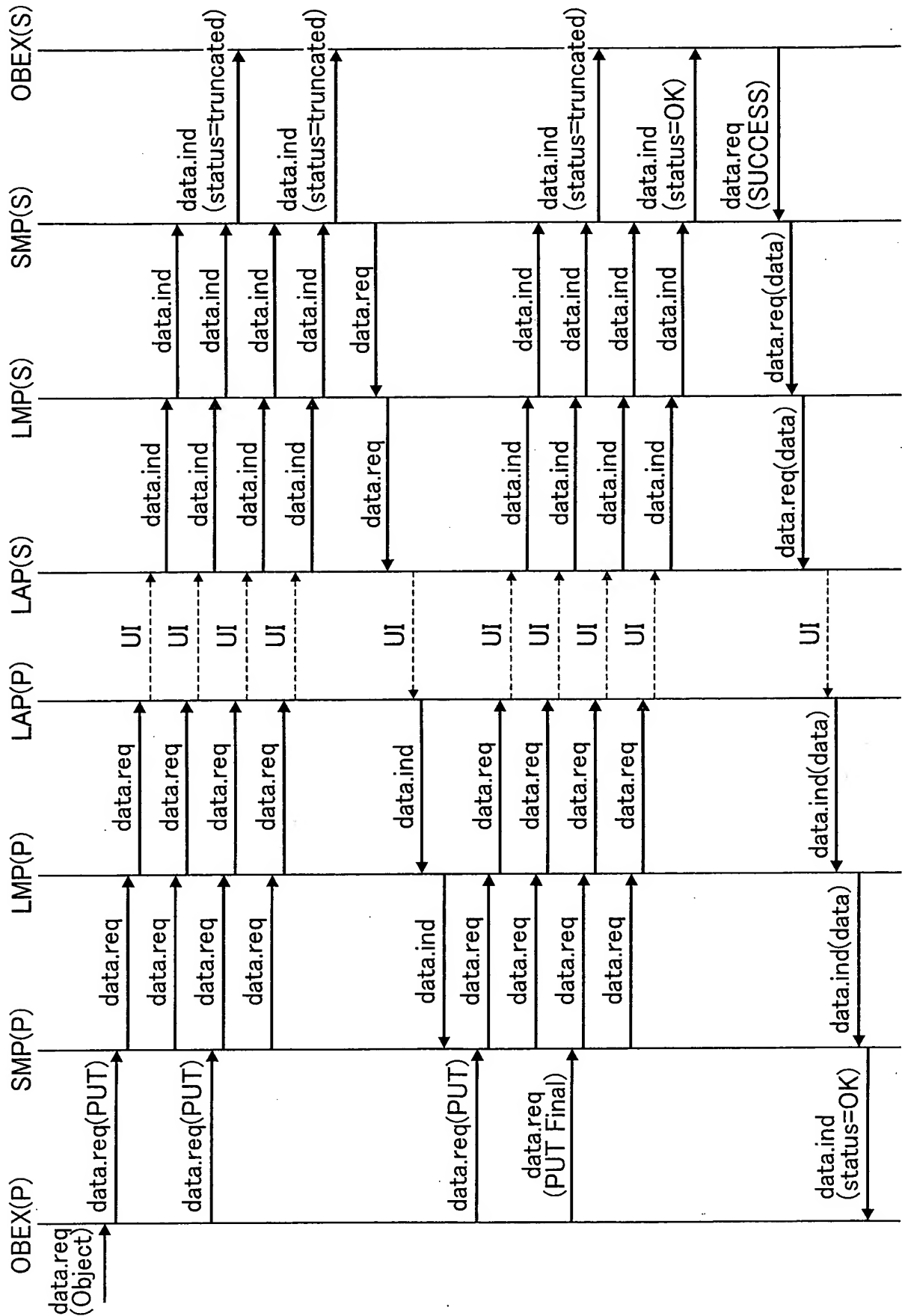


FIG. 44

TRANSMITTER RECEIVER

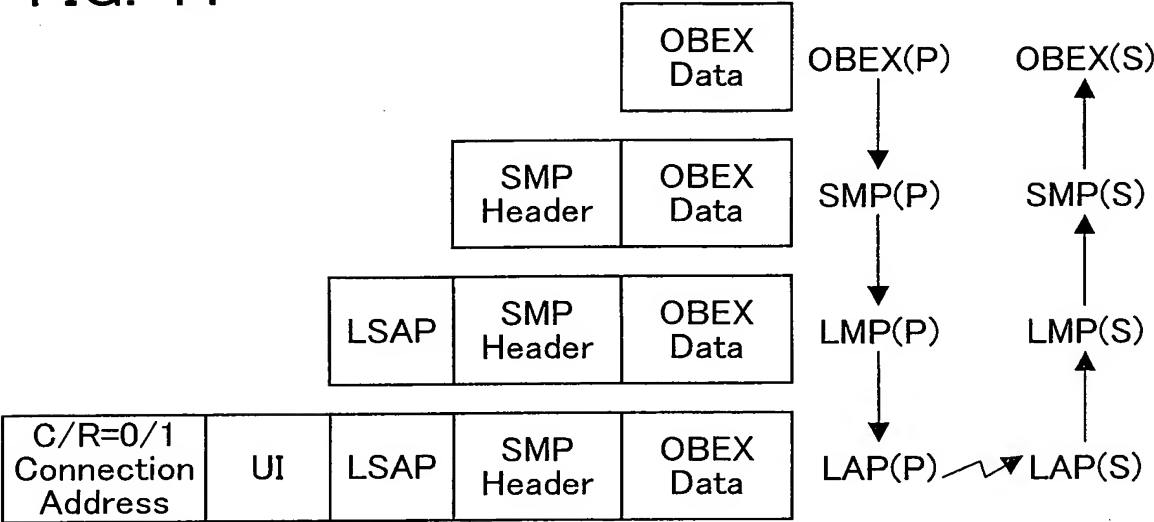


FIG. 45

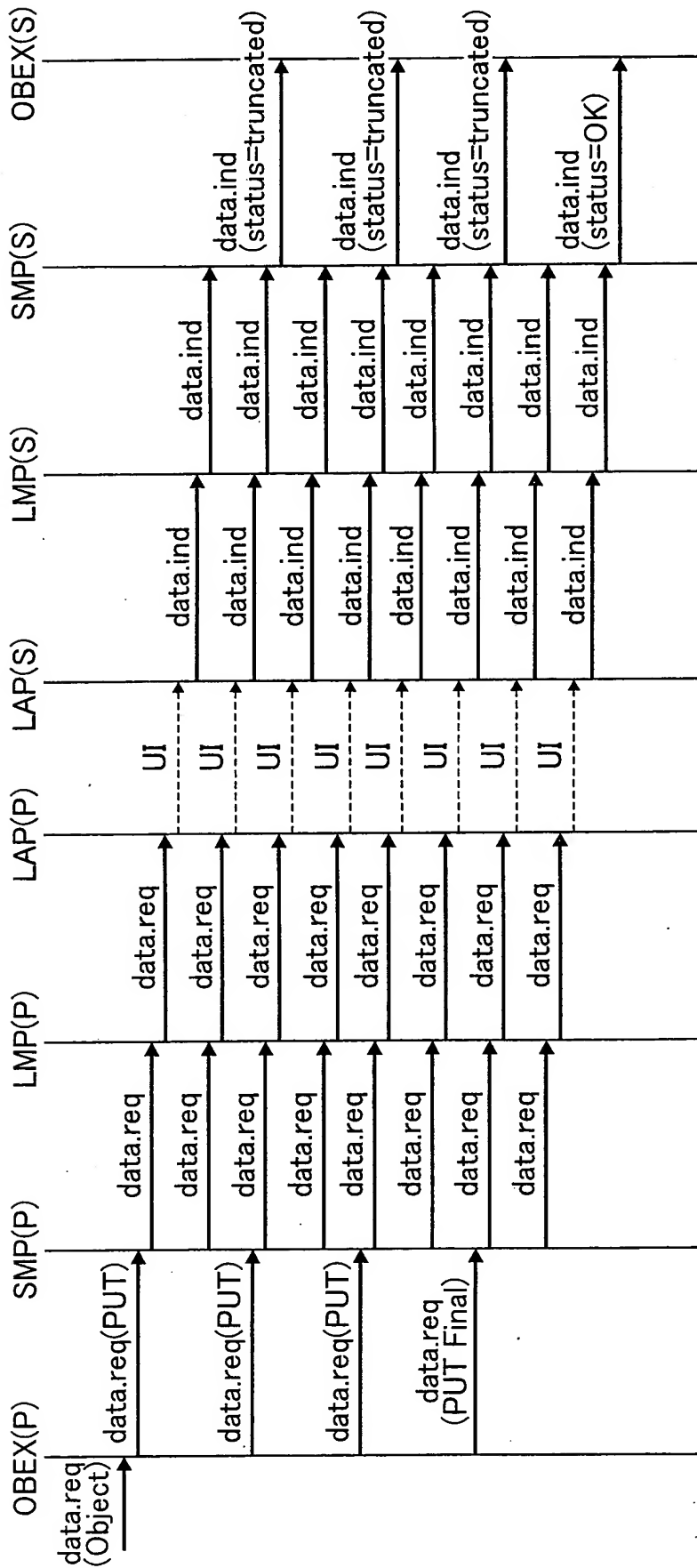


FIG. 46

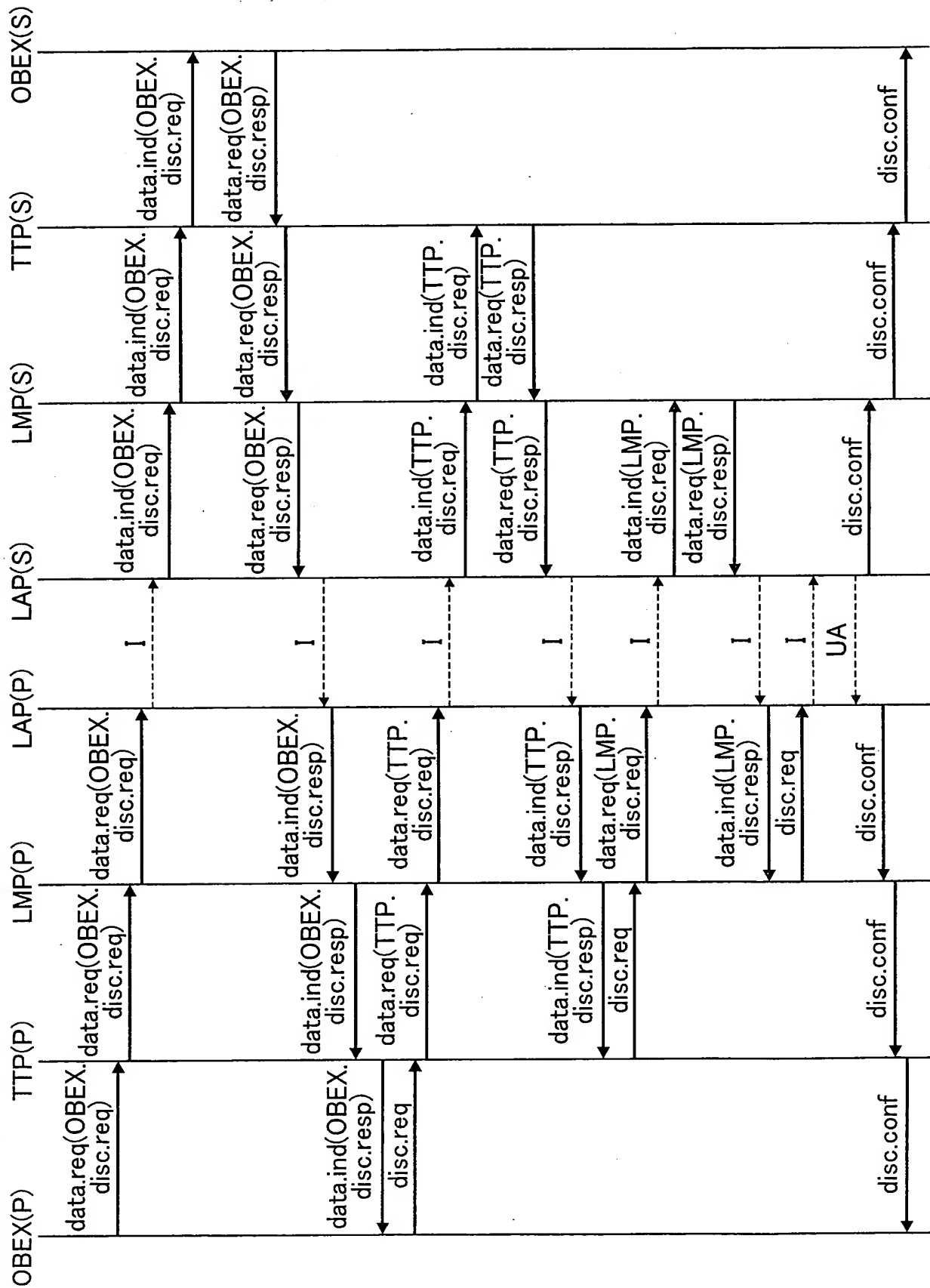


FIG. 47

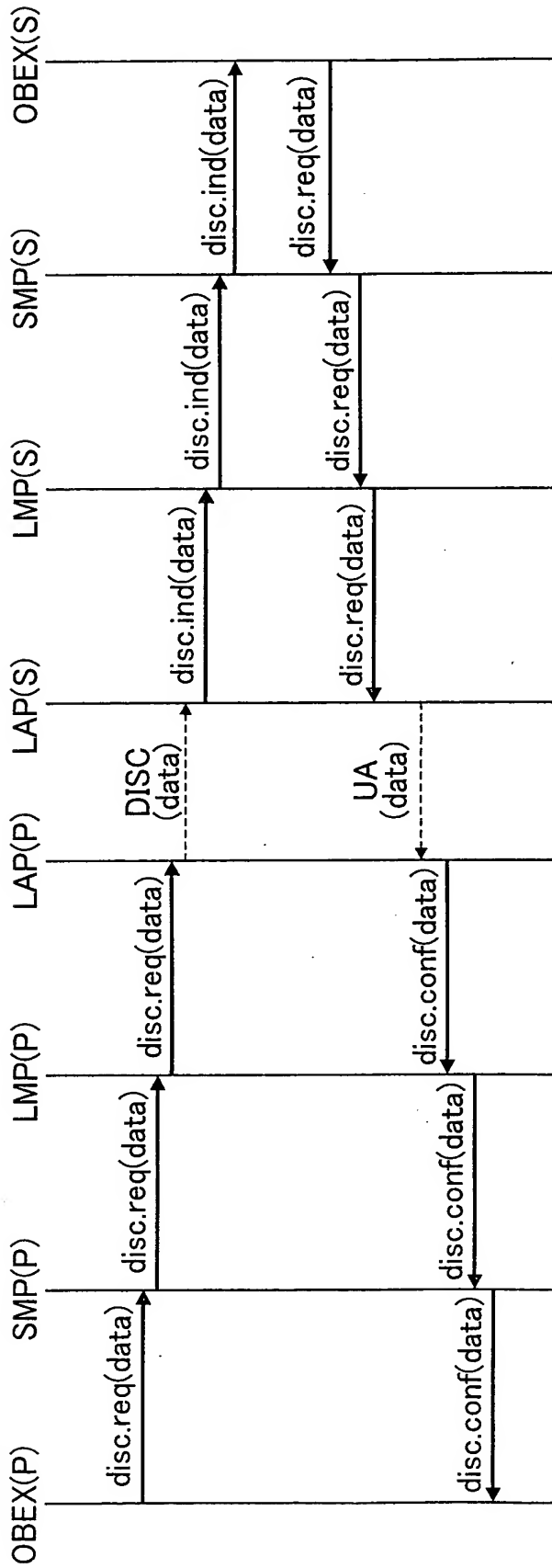


FIG. 48 (a)

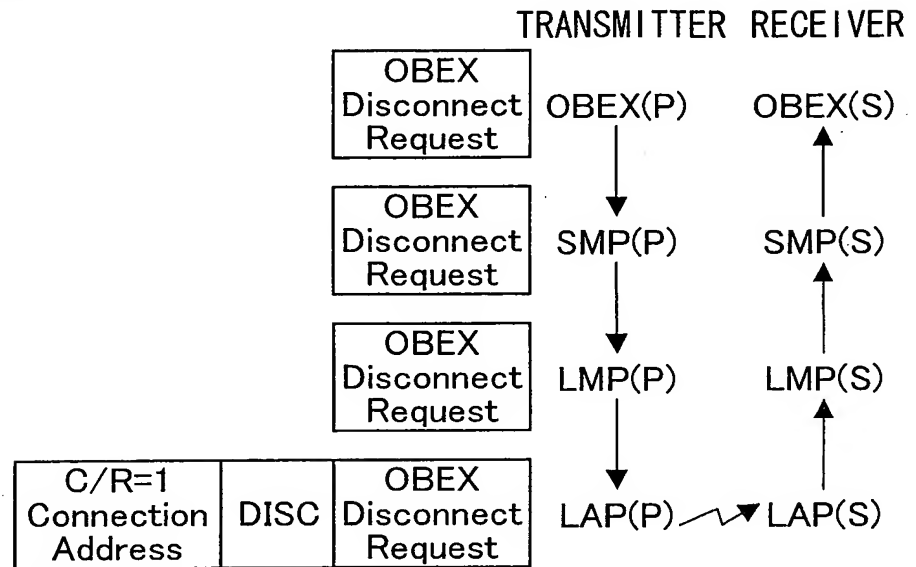


FIG. 48 (b)

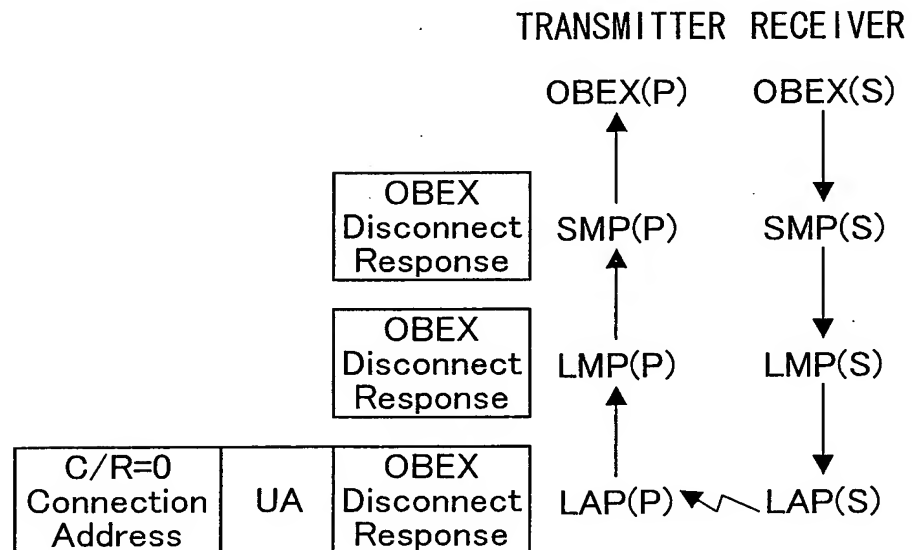


FIG. 49

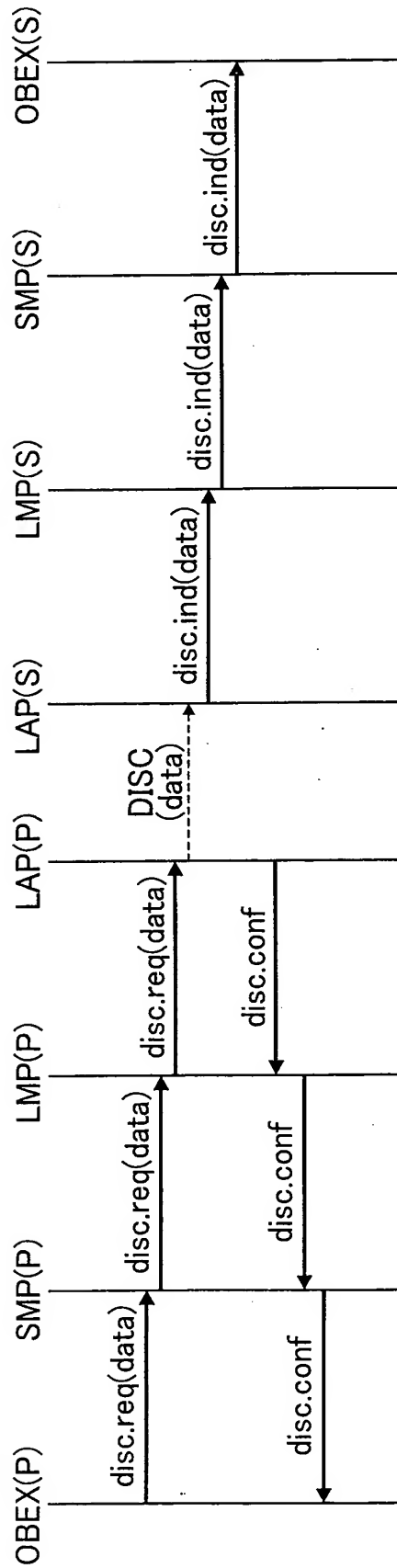


FIG. 50

TRANSMITTER

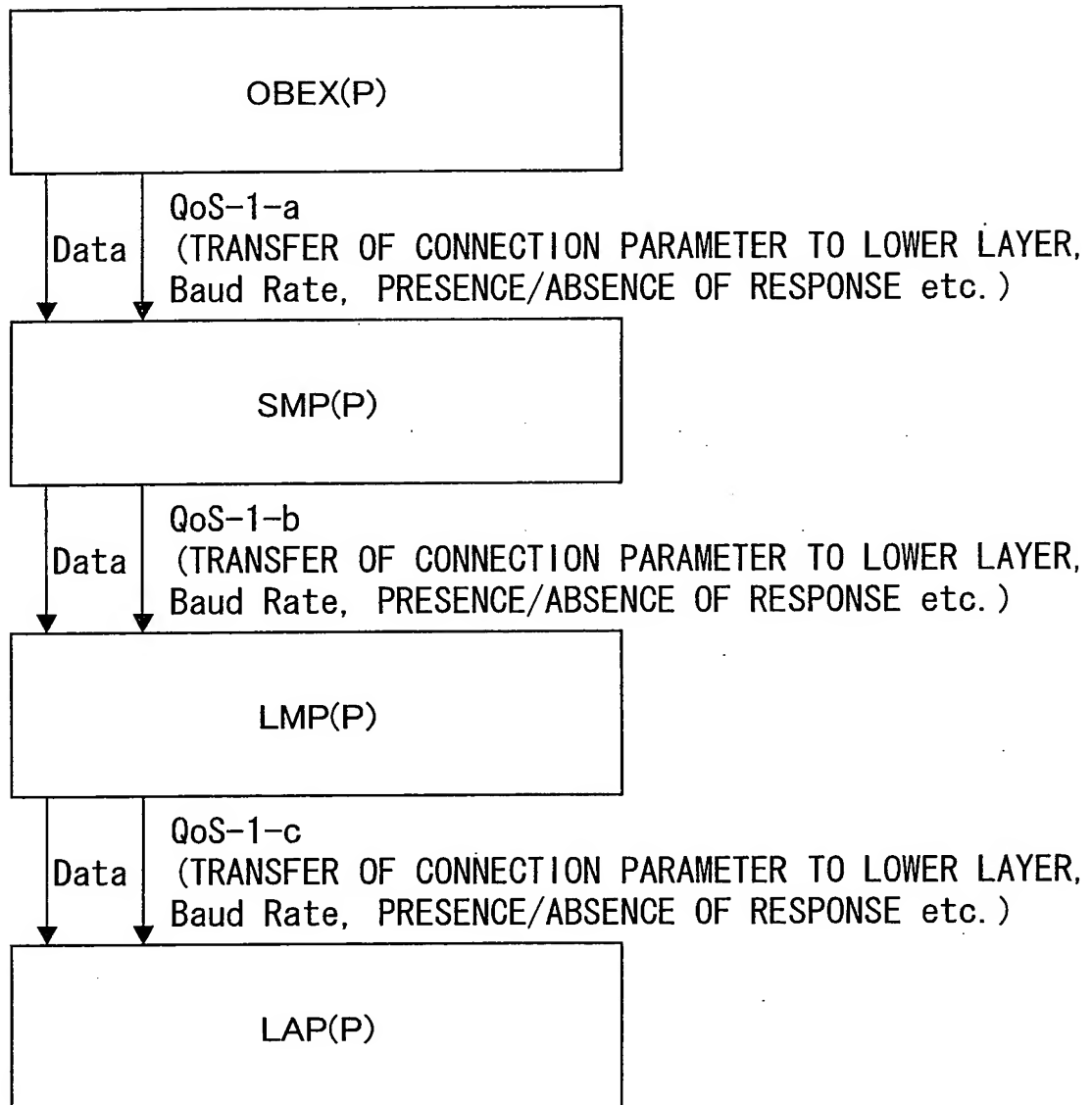


FIG. 51

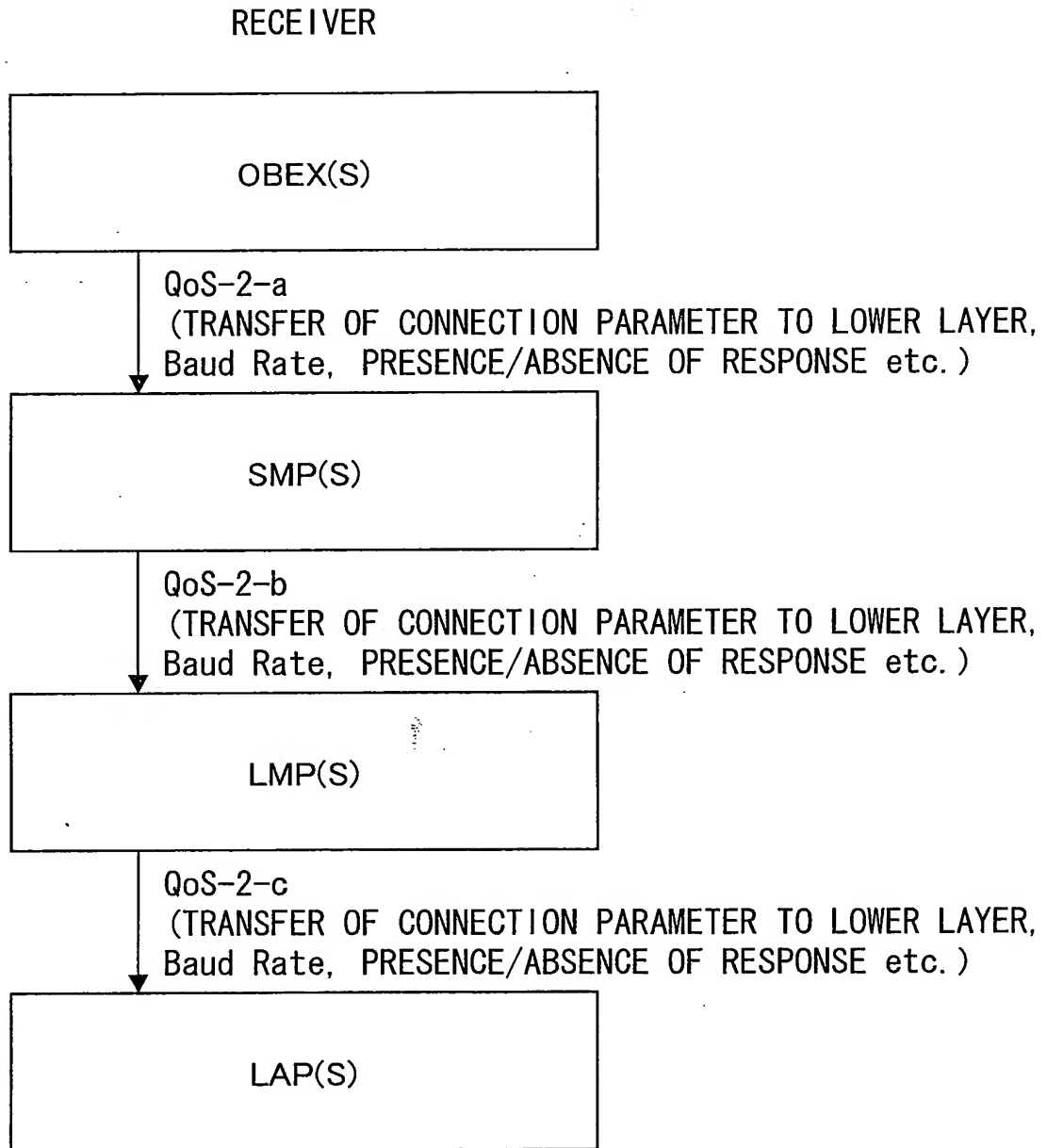


FIG. 52

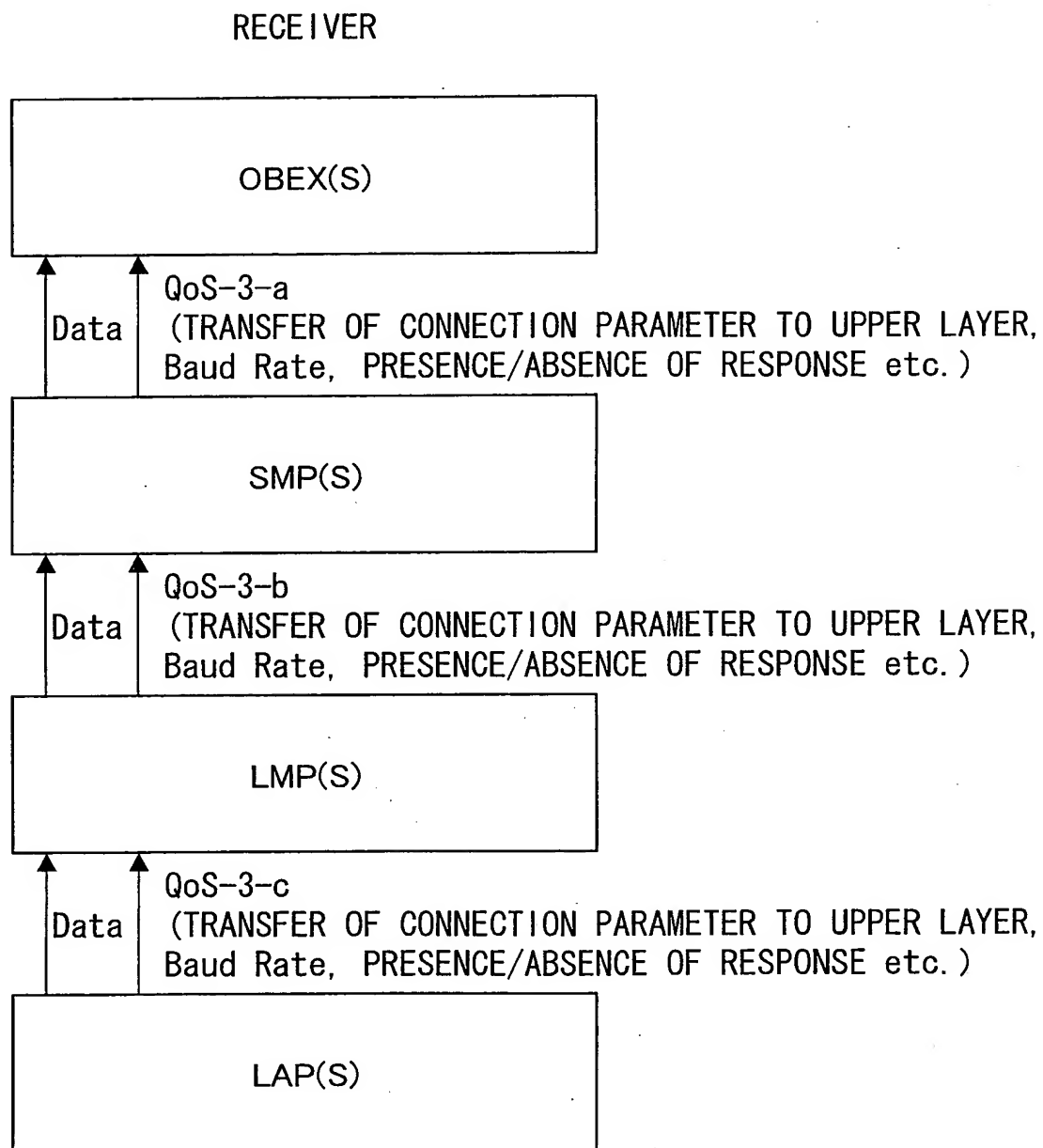


FIG. 53

RECEIVER

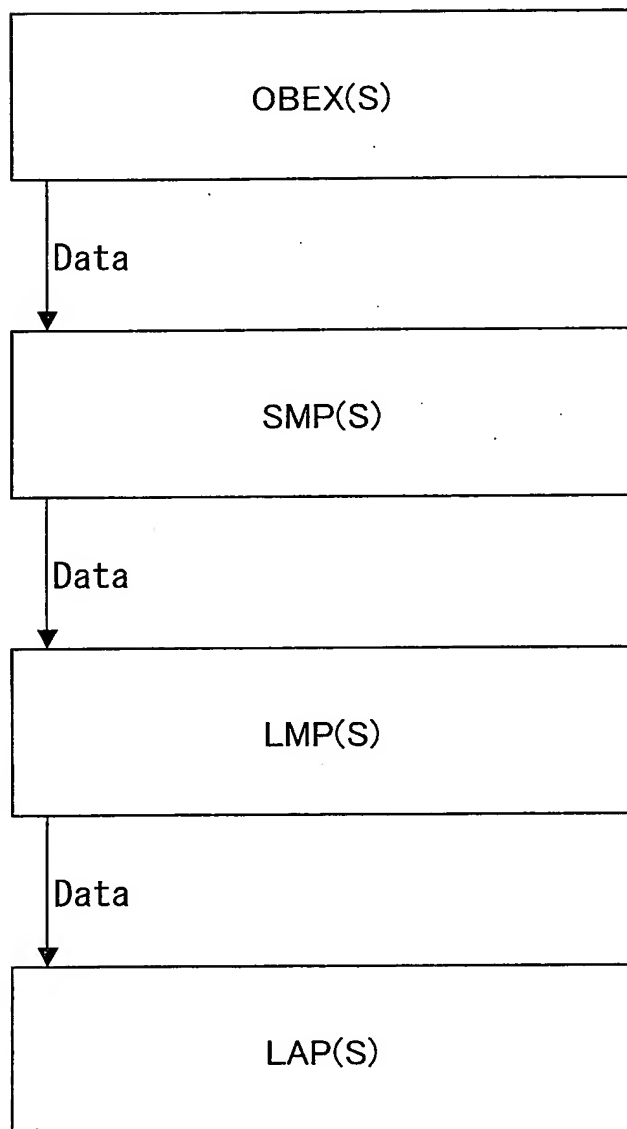


FIG. 54

TRANSMITTER

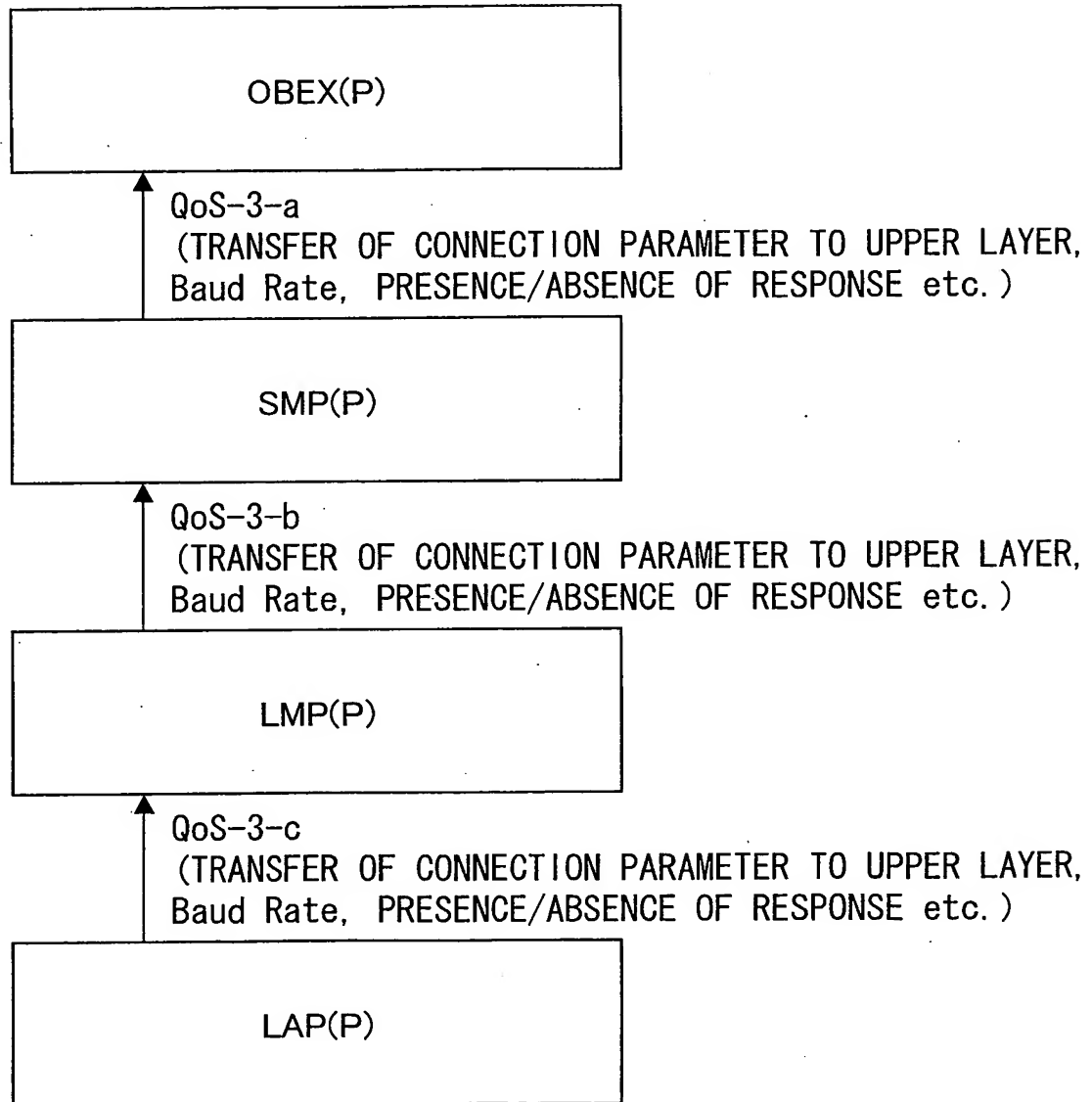


FIG. 55

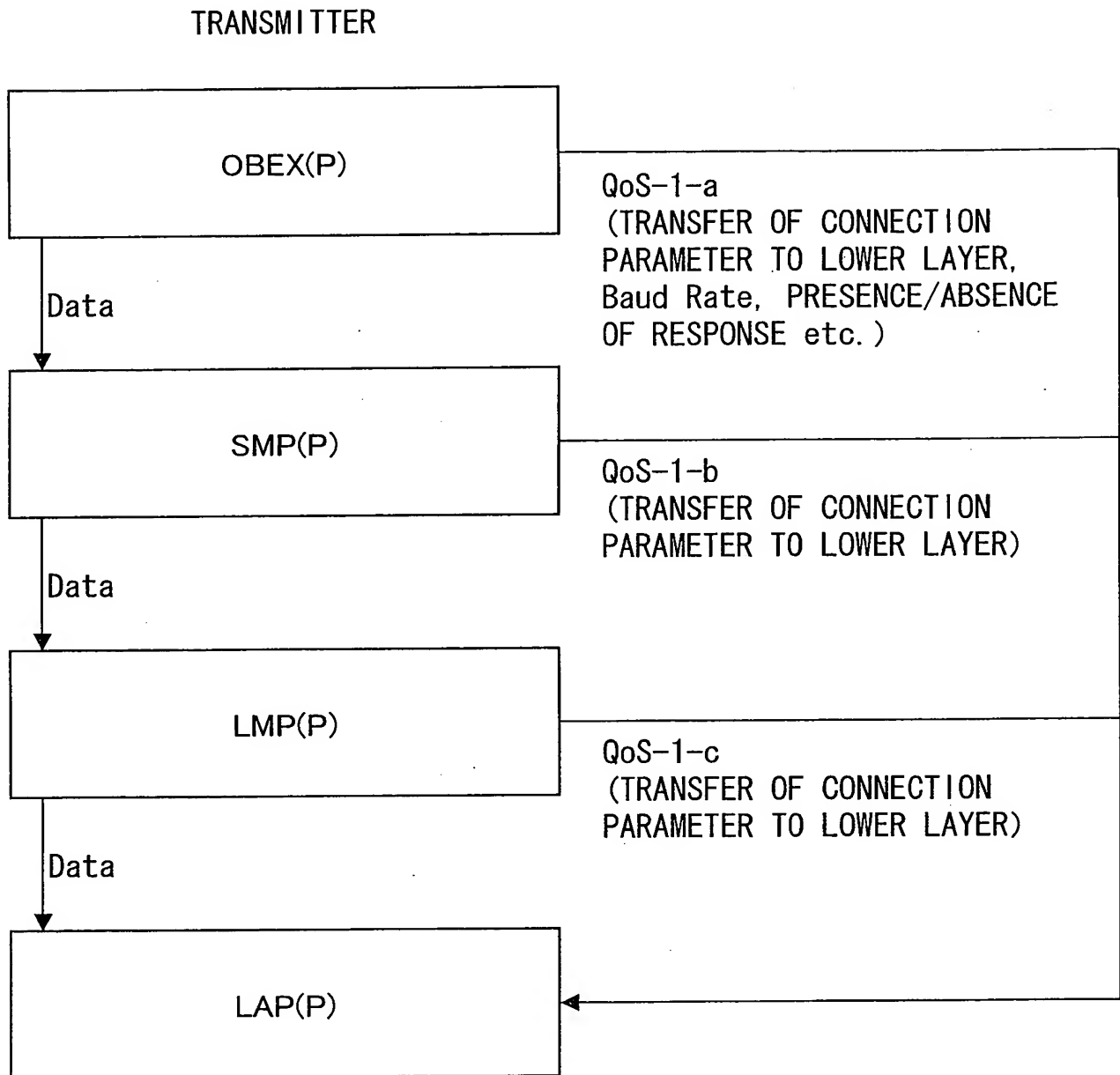


FIG. 56

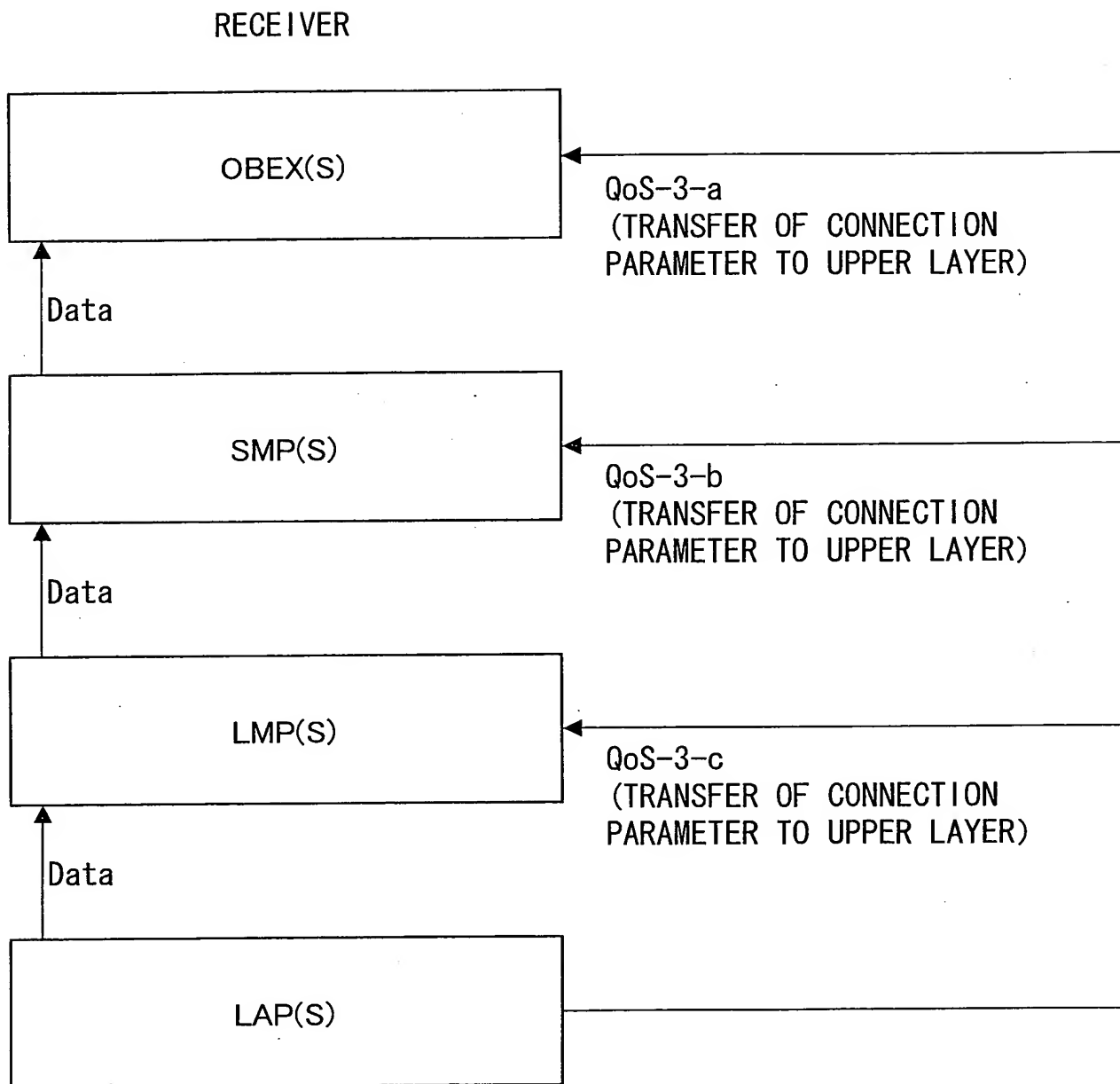


FIG. 57

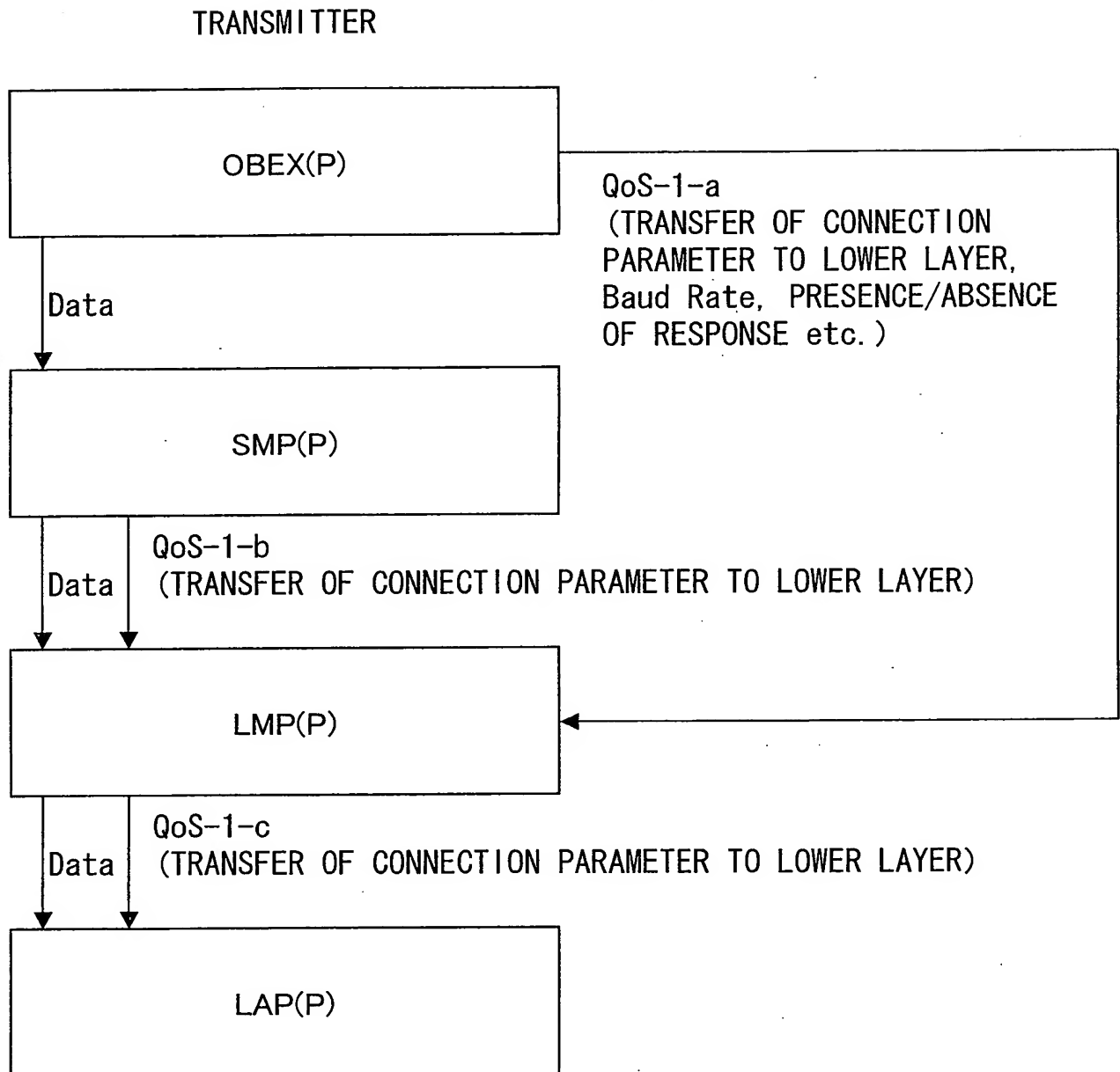


FIG. 58

COMMUNICATION SYSTEM 1000

